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हस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

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Calcutta, the 10th January 1998

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Telegraphic address "PATENTOFIC"

पेटेंट कार्यालय

एकसूत्र तथा अभिकल्प

कलकत्ता, दिनांक 10 जनवरी 1998

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा मुम्बई, प्रिल्ली एवं चेन्नई में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जैन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,
तीसरा तल, लोअर परेस (प.),
मुम्बई-400 013.

गुजरात, महाराष्ट्र, मध्य प्रदेश
तथा गोवा राज्य क्षेत्र एवं संघ
शासित क्षेत्र, दमन तथा दीव एवं
दादर और नगर हवेली ।

तार पता-“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू
तथा कश्मीर, पंजाब, राजस्थान,
उत्तर प्रदेश तथा दिल्ली राज्य
क्षेत्रों एवं संघ शासित क्षेत्र अंडमानिक ।

तार पता-“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
विंग सी (सी-4, ए)
तीसरा तल, राजाजी भवन बसन्त नगर,
चेन्नई-600090 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु,
तथा पाण्डिचेरी राज्य क्षेत्र एवं
संघ शासित क्षेत्र, लक्षद्वीप, मिनिक्काय
तथा एमिनिक्किन् द्वीप ।

तार पता-“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन, 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस मार्ग,
कलकत्ता-700 020.

भारत का कवक्षेत्र क्षेत्र ।

तार पता - “पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में
अर्पित सभी आवेदन-पत्र सूचनाएं, विवरण या अन्य प्रलेख पेटेंट
कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क : शुल्कों की अवधि या तो नकद की जाएगी अथवा
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा
आवेष या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा
चैक द्वारा की जा सकती है ।

APPLICATION FOR THE PATENT FILED AT THE
HEAD OFFICE 234/4, ACHARYA JAGDISH BOSE
ROAD, CALCUTTA-20

The dated shown in the crecent bracked, are the dated
claimed under section 135, under patent Act, 1970.

24-11-1997

2204/Cal/97. Saroj Kumar Paul and Steel Authority of
India Ltd., “A process for manufacturing form-
able quality cold rolled steel of high tensile and
yield strength”.

2205/Cal/97. W. Schlafhorst Ag. & Co., “Textile machines
producing cross coils” (Convention No.
19650879.7 on 7-12-96 in Germany).

2206/Cal/97. Engelhard Corporation, “Catalytic metal plate”
(Convention No. 08/761,544 on 6-12-96 in U S A)

2207/Cal/97. Wo. Weihaan, “Liposomal human calcitonin
generelated peptide composition and preparation
of the same”.

2208/Cal/97. Pouyet S.A., “Process for making a terminal
block for inter connection of telephone of com-
puter-related lines, and terminal block obtained
by this process”. (Convention No. 96 16076 on
20-12-96 in France).

2209/Cal/97. E. I. Du Point De Nemours and Company,
“Improved dispersion spinning process for poly
(Tetrafluoro ethylene) and related polymers”
Convention No. 08/770, 530 on 20-12-96 in
U S A).

2210/Cal/97 E. I. Du Point De Nemours and Comany,
“Improved dispersion spinning process for poly
(Tetrafluoro ethylene) and related polymers”
(Convention No. 08/770,531 on 20-12-96 in
U S A).

2211/Cal/97. Ross Operating Valve Company, “Crossflow
with crossmirror and lock out capability valve”
(Convention No. 08/770,878 on 20-12-96: 60/
Q33.016 on 16-12-96; and 08/812,689 on 6-3-97
in U S A).

2212/Cal/97. Patent-Trenhand-Gesellschaft Fur Elektrische
Gluhlampen MBH, “Radiofrequency operation of
circuit arrangement for (Operating) low-pressure
discharge lamps”.

25-11-1997

- 2213/Cal/97. Daewoo Electronics Co. Ltd., "Method and apparatus for diagnosing and determining deterioration/replacement of spark plug" (Convention No. 96-57740 on 26-11-96 in South Korea).
- 2214/Cal/97. Paques Bio Systems B. V., "Process for biological removal of sulphide" (Convention No. 96203347.8 on 27-11-96 in Europe).
- 2215/Cal/97. Anup Kumar Bhattacharya and Steel Authority of India Limited, "An improved process for producing high alumina refractory blocks".
- 2216/Cal/97. Dr. Senkar Prasad Chakrabarti, "Water soluble conglomerate from cedar eucalyptus neem carysanthemunitobacco having patent mosquito killing action".
- 2217/Cal/97. Mitsubishi Denki Kabushiki Kaisha, "Electron tube cathode". (Convention No. 319748/96 on 29-11-96 in Japan).
- 2218/Cal/97. Hydroplan Engineering Ltd., "An improved irrigation emitter unit".
- 2219/Cal/97. Hydroplan Engineering Ltd., "An improved irrigation emitter".
- 2220/Cal/97. Minipack-Torre S.p.A., "Heat shrinkable film packaging machine" (Convention No. MI 96 U 000787 on 3-12-96 in Italy).
- 2221/Cal/97. Siemens Aktiengesellschaft, "Circuit arrangement for producing negative voltages" (Convention No. 19702535.8 on 24-1-97 in Germany).
- 2222/Cal/97. Siemens Aktiengesellschaft, "Method for testing system components of an object-oriented programme" (Convention No. 19650293.4 on 4-12-96 in Germany).
- 2223/Cal/97. Socomec S.A., "Disconnecting device such as a change-over switch for an electrical installation" (Convention No. 96/14559 on 25-11-96 in France).
- 2224/Cal/97. Companhia Vale Do Rio Doce., "Process for iron ore pellets productions".

ALTERATION OF DATE

Patent No. 180022 (466/Mum/93) Ante-dated to 26th November, 1991.

Patent No. 180024 (510/Mum/93) Ante-dated to 8th June, 1989.

No. 180067 (256/Del/90) filed on 16-5-1990. Ante-dated to 26-5-1987.

Patent No. 180097 (374/Mas/91). Ante-dated to 2nd December, 1987.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the patent office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by two to get the charges as the copying charges per page are Rs. 2/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक व्यक्ति, इसके निर्गम की तिथि से चार (4) महीने या अधिक, ऐसे अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर अर्जित एक महीने की अवधि में अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र के उपयुक्त कार्यालय में ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित दस्तावेज उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसको तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की अंकित अथवा फोटो प्रतियां की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जिस उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके, (अर्थात् प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 32 F₂

180001

Int. Cl. : C 07 C 69/00.

METHOD FOR PREPARING A SUBSTITUTED CARBOXYLIC ACID DERIVATIVE COMPOSITION.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND, BOULEVARD, WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

Inventor : WILLIAM MONROE LESUER.

Application No. 890/Cal/1991 filed on 28th November, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Calcutta.

3 Claims

A method for preparing a substituted carboxylic acid derivative composition which comprises reacting an alcohol, as herein described, reactive metals or reactive metal compounds as herein described with atleast one substituted carboxylic acid or derivative obtained by the process of claim 1 of application No. 50/Cal/85, under conditions as herein described.

Compl. Specn. : 79 Pages

Drgns. : 1 sheet.

Ind. Cl. : 155 D

180002.

Int. Cl.⁴ : C 08 J 5/04.

AN IMPROVED PROCESS FOR PREPARING JUTE REINFORCED LAMINATES OF COMPOSITES FROM JUTE NON-WOVEN MAT OR FELT AS AN INDUSTRIAL SUBSTITUTE OF TIMBER, PLYWOOD AND OTHER MOULDED PRODUCTS.

Applicant : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700 088, WEST BENGAL INDIA.

Inventors : 1. DR. BHAIKAB CHANDRA MITRA, 2. MR. AMAL MANDAL, 3. MR. SOMEN DAS.

Application No. : 210/Cal/1994 filed on 28th March, 1994.

Appropriate Officer for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Calcutta.

17 Claims

An improved process for preparing jute base laminates from jute non woven mat or felt as in industrial substitute of timber plywood and moulded product which comprises:

- (a) Pretreating jute non woven mat or felt which may contain scrim fabrics with solution of either low molecular weight phenol formaldehyde resin, C.N.S.L. (Cashew nut shell liquid) modified phenol formaldehyde resin or melamine formaldehyde resin of low molecular weight or with a mixture of the above resin and that the concentration of the resin must be within 5-20% at an ambient temperature for sometime so that uptake of the resin is within 5-10% of the fibre weight at this stage, being determined after drying the same at a temperature of 105 to 120°C to make the jute fibre sufficiently hydrophobic and then cooling to room temperature.
- (b) treating the pretreated mat of step (a) with an aqueous solution of resin of desired density optionally containing wax emulsion and known fire retardant chemicals for sometime at an ambient temperature so that the treated mat after squeezing through rollers and drying at a temp of 90 to 160°C should contain the total amount of resin to the extent of 15% to 30% of the weight of the fibre.
- (c) cutting the treated jute mat of step (b) to desired sizes.
- (d) laminating several layers of the treated non woven cloth by applying a pressure between 250 psi to 1000 psi at a temperature not less than 95°C for a period of 5 minutes to 30 minutes depending on different end uses of the product and then cooling down to 40-50°C. within a period of 30 minutes to 90 minutes.
- (e) taking out of the hydraulic press and trimming and finishing to actual size.

(Compl. Specn. 20 pages;

Drgns. Nil.)

Cl. : 155 D
188

180003

Int. Cl.⁴ : C 23 C 18/16, 18/28, 18/38.
D 06 M 11/02
D 06 Q 1/00.

A PROCESS FOR ELECTROLESSLY PLATING ARAMID FIBRES.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, OF WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors :

- (1) VLODEK GABARA
- (2) CHE-HSIUNG HSU
- (3) EDWARD WILLIAM TOKARSKY.

Application No. 760/Cal/1993 filed on 6th December, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

10 Claims

A process for electrolessly plating aramid fibres with a durable metal coating comprising the steps of contacting the aramid fibres such as herein described to be plated with a sensitizing solution as herein described, rinsing the fibres and immersing the fibres in a solution of metal cations as herein described to be plated, the improvement which comprises;

- (a) contacting the aramid fibres in an 80 to 90% sulfuric acid solution for 2 to 60 seconds at a temperature in the range from 10 to 100°C; and
- (b) washing the acid-contacted fibres with water until substantially all of the acid is removed; before contacting the fibres to be plated with the sensitizing solution.

(Compl. Specn. 19 pages;

Drgns. 3 sheets.)

Cl. : 40 A 1

180004

Int. Cl. : B 01 J 29/04
C 01 B 33/20.

A PROCESS FOR HYDROALKYLATING AN AROMATIC HYDROCARBON.

Applicant : THE BROKEN HILL PROPRIETARY COMPANY LIMITED, OF 140 WILLIAM STREET AND NOW OF 600 BOURKE STREET, MELBOURNE, VICTORIA 3000, AUSTRALIA.

Inventor : GORDON GEOFFREY PERCIVAL.

Application No. 615/Cal/1993 filed on 14th October, 1993.

(Convention No. PL 5270 on 15th October, 1992 in Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Calcutta.

29 Claims

A process for hydroalkylating an aromatic hydrocarbon, the process comprising contacting an aromatic hydrocarbon having a mass hourly velocity in a range from 0.2 to 100 br⁻¹ with hydrogen at a pressure in a range from 1 to 200 atmospheres in the presence of a catalyst wherein the catalyst comprises a molecular sieve material having an acid function, a hydrogenation component and a shape selective function wherein the molecular sieve material has a pore size that is capable of accommodating molecules of the products to be produced and excluding molecules of reactants that are too large, said catalyst optionally contains a suitable promoter selected from an element of Groups V, VI, VII and VIII of the periodic table.

(Compl. Specn. 20 pages;

Drgns. Nil.)

Cl. : 35 E
85 J

180005

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

Int. Cl. : F 27 B 7/00, 9/00
F 27 D 1/00.

"A METHOD OF PRODUCING METALS/ALLOYS IN METALLURGICAL REACTION VESSEL, WITH IMPROVED PRODUCTIVITY".

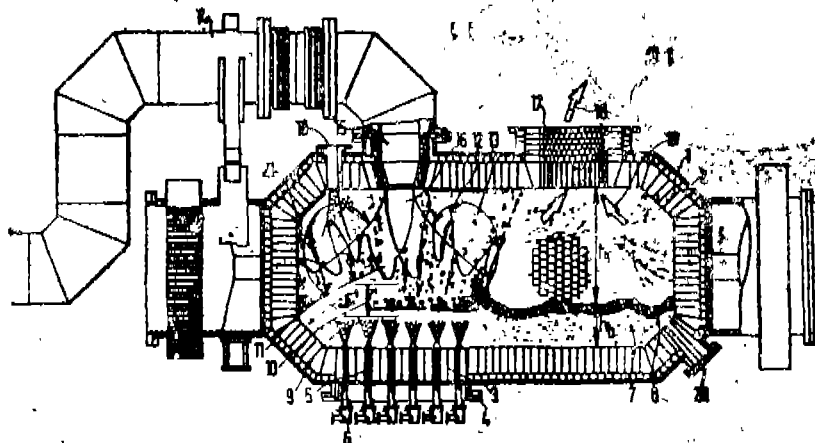
Applicant : TECHNOLOGICAL RESOURCES PTY. LIMITED, OF LEVEL 39, 55 COLLINS STREET, MELBOURNE 3001, AUSTRALIA.

Inventors : 1. GREGORY JOHN HARDIE, 2. PAUL GERHARD MANTEY.

Application No. : 557/Cal/1993 filed on 22nd September, 1993.

15 Claims

A method of producing metals/alloys in metallurgical reaction vessel, whereby the productivity of the reaction vessel is caused to be improved, said metallurgical reaction vessel containing a molten bath to which the reacting agents are fed below and above the bath surface, the gases emerging from the metal bath being afterburned in the space above the smelt by oxidizing gases injected into said gas space and the resulting heat being transferred to the molten bath, characterized in that gas is introduced via underbath tuyeres into the reaction vessel, such that fractions of said molten bath in the form of drops, splashes and particles are caused to move on ballistic trajectories to emerge like a fountain within said gas space and produce a disperse metal-drop phase in said gas space, whereby said fractions pick-up heat energy for being transferred back to said molten bath.



Compl. Specn : 21 pages

Drgns : 1sheet

Cl. : 143 D₁ + 143 D₂
143 D₃

180006

Int. Cl. : B 65 D 65/38

"PACKAGING MATERIAL AND PROCESS FOR PREPARING THE SAME".

Applicant : PUWAKDANDAWA NARAYANA NANDA-DASA, OF 127, JAMBUGASMULLA MAWATHA, NUGEGODA, SRI LANKA.

Inventor : PUWAKDANDAWA NARAYANA NANDA-DASA.

Application No. : 636/Cal/1993 filed on 20th October, 1993.

(Convention No. 10450 on 20-11-1992 in Sri Lanka).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

28 Claims

A packaging material, made of coir dust and/or agro-wastes, such as herein described, in particulate form, optionally with addition of some known fertilizer(s), which is/are bonded with a resilient bonding agent, such as herein described, and which is capable of being transformed either in shape(s) and dimension(s) of the article(s) to be packaged, for example, the shape of pots used by plant growers, or in the form of pellets/granules for being used as fillers

around the article(s) to be packaged, such that, after use, the packaging material is capable of being reused for purpose(s), such as herein described, instead of being added as garbage.

Compl. Specn : 13 Pages

Drgns : Nil.

Cl. : 171

180007

Int. Cl. : A 61 F 9/08

AN INTRASTROMAL CORNEAL RING.

Applicant : KERA-VISION INC., OF 2334 WALSH AVENUE, SANTA CLARA, CALIFORNIA 95051, UNITED STATES OF AMERICA.

Inventors :

(1) THOMAS SILVESTRI

(2) MARK MATHIS.

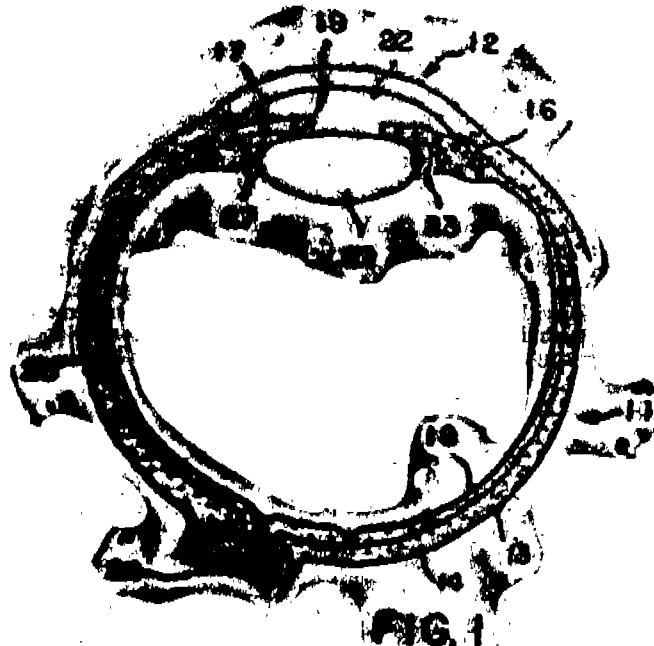
Application No. 544/Cal/1993 filed on 20th September, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

14 Claims

An intrastromal corneal ring (47) for adjusting the shape of the cornea (50) of an eye, said ring comprising first (48, 70, 80, 90, 100, 111, 130) and second (49, 71, 81, 91, 101, 112, 131) end portions, characterized in that the said end portions being spaced from one another are forced toward

each other (i, j, hf, hf, vf, vt) and coupled to one another in a manner which forms a substantially smooth and continuous ring surface in the vicinity of the coupling.



(Compl. Specn. 21 pages;

Drgns. 8 sheets.)

Cl. : 32

180008

Int. Cl. : C 07 B 35/06
C 07 C 29/15.

A PROCESS FOR THE SIMULTANEOUS PRODUCTION OF 1, 2- AND 1, 3-PROPANEDIOL FROM GLYCEROL.

Applicant : DEGUSSA AKTIENGESellschaft, OF
WESER-STRASSE 1, D-60311 FRANKFURT, GER-
MANY.

Inventor :

- (1) DR. THOMAS HAAS
- (2) DR. ARMIN NEHER
- (3) DR. DIETRICH ARNTZ
- (4) DR. HERBERT KLENK
- (5) WALTER GIRKE.

Application No. 612/Cal/1993 filed on 14th October, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office Calcutta.

5 Claims

A process for the simultaneous production of 1,2- and 1,3-propanediol from glycerol, said method comprising :

- (a) dehydrating glycerol with formation of an aqueous solution containing acrolein and hydroxyacetone by feeding a glycerol-water mixture with a glycerol content of 10 to 40 wt % in the gas phase at 230° to 340°C over an acidic solid catalyst with an H_0 -value (Hammett acidity function) of less than +2 and condensing the gaseous product stream to the aqueous solution mentioned;
- (b) hydrating the acrolein contained in the condensed product stream to 3-hydroxypropionaldehyde by treating the condensed product stream of stage (a) at 20° to 120°C in the presence of an acidic hydration catalyst; as herein described and

- (c) catalytically hydrogenating the 3-hydroxypropionaldehyde and hydroxyacetone contained in the aqueous reactions solution of stage (b) to 1, 3- and 1,2-propanediol in a known manner using a known hydrogenating catalyst and separating the reaction mixture of stage (c) into 1, 2- and 1,3-propanediol by fractional distillation.

(Compl. Specn. 14 pages;

Drgns. Nil.)

Cl. : 128 F

180009

Int. Cl. : A 61 M 5/00
A 61 F 15/00.

A MEDICATION INJECTION DEVICE.

Applicant : TEXAS PHARMACEUTICALS INC., OF
P.O. BOX N-3247 NASSAU, NEW PROVIDENCE, COM-
MONWEALTH OF BAHAMAS.

Inventor : NICHOLAS BACHYNSKY.

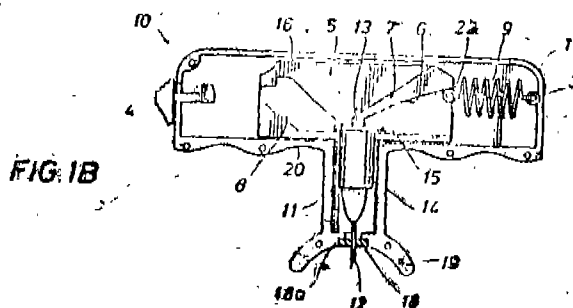
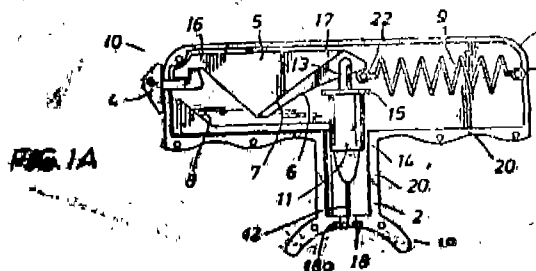
Application No. 471/Cal/1993, filed on 16th August, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office Calcutta.

2 Claims

A medication injection device comprising :

- (a) a housing (20);
- (b) a syringe (11) having a syringe barrel for holding a medicament, a plunger (13) movable within the barrel for ejecting the medicament from the barrel, and a hollow needle (12) communicating with the barrel for transporting the medicament from the barrel to a patient, said syringe being mounted in the housing so as to move from a first retracted position to a second extended position for injecting the medicament;
- (c) movement and injection means (5) for moving the syringe from the first position to the second position and pushing the plunger for injecting the medicament after the syringe has moved at least toward the second position; and
- (d) a spring (9, 21) for moving the syringe back to the first retracted position after the medicament has been injected, said housing having a first portion for holding the syringe and a second portion, perpendicular to the first portion, for holding the movement and injection means.



(Compl. Specn. 17 pages;

Drgns. 2 sheets.)

Cl. : 128 G

180010

Int. Cl. : F 25 B 1/00

A 61 M 35/00.

ASSEMBLY FOR DISPENSING A LIQUID REFRIGERANT.

Applicant : KONINKLIJKE UTERMÖHLEN N. V., OF
FRIXASTRAAT 1, NL-8471 ZW; P.O. BOX 3, NL. 8470
AA WOLVEGA, THE NETHERLANDS.

Inventor : JENSMA KLASS.

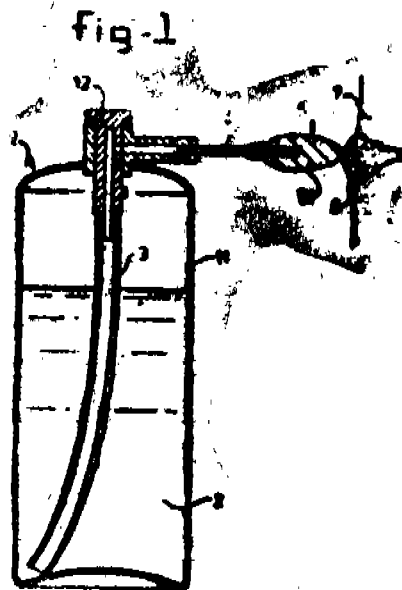
Application No. 37/Cal/1994 filed on 24th January,
1994.

Appropriate Office for Opposition Proceedings (Rule 4,
Patents, Rules, 1972), Patent Office Calcutta.

18 Claims

An assembly for dispensing a liquid refrigerant, said
assembly comprising

1. a container which
 - (a) comprises a valve having an inlet and an outlet, and
 - (b) is sealed except for the valve;
2. a liquid refrigerant such as herein described which
 - (a) is contained under pressure within the container and
 - (b) has a boiling point at atmospheric pressure of less than 0°C;
3. a feed tube which has
 - (a) a first end within the refrigerant, and
 - (b) a second end which communicates with the inlet of the valves;
4. an outlet tube which has
 - (a) a first end which communicates with the outlet of the valve; and
 - (b) a discharge end;
5. a dispensing head which
 - (a) comprises a shaped member composed of an open celled foam, and
 - (b) is secured to the discharge end of the outlet tube so that, when the valve is open, the liquid refrigerant is dispensed through the open celled foam.



(Compl. Specn. 13 pages;

Drawn. 2 sheets.)

Indian class : 143 D2

180011

Int. Cl. : B 65 B 29/02, A 47 G 19/16

AN INFUSION PACKAGE AND A METHOD OF PREPARING THE SAME.

Applicant : TIDY TRADING LIMITED, A COMPANY ORGANISED UNDER THE LAWS OF THE BRITISH VIRGIN ISLANDS, OF P O BOX 141, LA TONNELLE HOUSE, LES BANQUES, ST SAMPSON, GUERNSEY, CHANNEL ISLANDS.

Inventor : ANTHONY EVAN SHAKESPEARE.

Application No. 214/Mas/93 dated 26th March 1993.

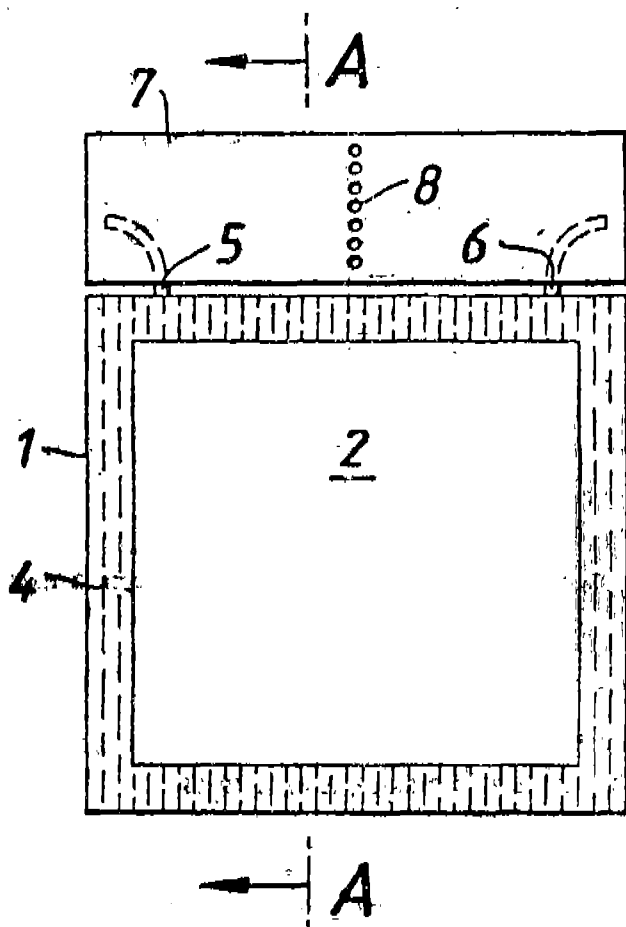
Convention Date : 27th March 1992 (No. 9206754.5-United Kingdom) 19th May 1992—(No. 9210613.7-United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4,
Patents Rules, 1972), Patent Office, Chennai Branch.

20 Claims

An infusion package comprising a closed bag (1) containing an infusible substance for infusion in a liquid, the bag being formed from panels (2, 3) of porous materials sealed together at their peripheral margins (4); and a pair of drawstrings (5, 6) each drawstring extending through a seal between the panels, entering the interior of the bag at an entry point (9, 13) on the peripheral margins, and extending across the interior of the bag to an anchoring point (10, 11) at or adjacent the peripheral margins; wherein the length of that portion of each string which extends across the interior of the bag between its entry point and its anchoring point is greater than the distance between its entry point and its anchoring point, thereby providing a length of slack string within the bag; the arrangement being such that pulling each string initially causes withdrawal from the bag interior of the slack string length disposed therein without collapsing the bag, and

whereby further pulling the drawstrings in generally opposed directions causes the bag to collapse thereby to express liquid absorbed by the infusible substance during infusion.



(Com. 23 pages)

Drgns. 4 sheets.)

Ind. Cl. : 103

180012

Int. Cl.^A : C23C 30/00

A PROCESS FOR PREPARING A STABLE AQUEOUS COMPOSITION FOR TREATING METAL SURFACES.

Applicant : HENKEL CORPORATION, A US COMPANY, OF 140 GERMANTOWN PIKE, SUITE 150, PLYMOUTH MEETING, PA 19462, U.S.A.

Inventors : 1. SHAWN E DOLAN, 2. GARY A REGHI.

Application No. : 220/Mas/93 dated 29th March 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

A process for preparing a stable aqueous composition for treating metal surfaces comprising steps of :

(I) providing a mixture consisting essentially of water; and

(A) a dissolved component selected from the group consisting of H_2TiF_6 , H_2ZrF_6 , H_2HfF_6 , H_2SiF_6 , H_2GeF_6 , H_2SnF_6 , HBF_4 , and mixtures thereof and

(B) a dissolved, dispersed, or both dissolved and dispersed component selected from the group consisting of Ti, Zr, Hf, Al, Si, Ge, Sn and B, the oxides, hydroxides, and

carbonates of Ti, Zr, Hf, Al, Si, Ge, Sn and B, and mixtures of any two or more of these elements, oxides, hydroxides, and carbonates;

(II) agitating the mixture provided in step (I) for at least 3 to 480 min at a temperature from 25 to 100°C till the mixture is free from any visually observable evidence of phase separation and is sufficiently stable to remain free from any visually observable evidence of phase separation during storage at temperature in the range from 20 to 25°C for a period of at least 100 hours;

(III) mixing with the agitated mixture from the end of step (II) a component (C) selected from the group consisting of (1) water soluble and water dispersible polymers and copolymers of x -(N-R¹-N-R²-aminomethyl)-d-hydroxystyrenes, where $x=2, 3, 5$, or 6; R¹ represents an alkyl group containing from 1 to 4 carbon atoms; and R² represents a substituted group conforming to the general formula $H(CHOH)_n-CH_2-$ where n is an integer from 3 to 8 and mixtures of any two or more thereof; and (2) dissolved hexavalent chromium to form a stable mixture free from any visually observable evidence of phase separation during storage at temperature in the range from 20 to 25°C for a period of at least 10 hours.

(Com. : 30 pages)

Ind. Cl. : 144E6

180013

Int. Cl.^A : C01B 3/00, C09C 1/48

AN APPARATUS AND A METHOD FOR THE CONTINUOUS PRODUCTION OF CARBON AND HYDROGEN BY THE THERMAL DECOMPOSITION OF HYDROCARBON GAS.

Applicant : KVAERNER ENGINEERING A. S., PROF-KOHTSVEI 5, N-1324, LYSAKER, NORWAY, A NORWEGIAN COMPANY.

Inventors : 1. STEINAR LYNUM, 2. KJELL E HAUGSTEN, 3. KETIL HOX, 4. JOSTEIN LANGOY.

Application No. : 237/Mas/93 dated April 2nd, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

An apparatus for the continuous production of carbon and hydrogen by the thermal decomposition of hydrocarbon gas, such as methane, said apparatus comprising a plasma torch (1) used as a thermal decomposition reactor supplied with preheated hydrocarbon gas as a feed gas and preheated hydrocarbon gas and/or preheated hydrogen as a plasma gas, wherein at least a part of the hydrogen produced is recycled and used as a plasma gas and with the thermal decomposition reactor (1) a second reactor (2) with adjustable temperature zones is connected in order to influence and control the properties of the carbon as well as to modify the surface and structure of the carbon, the said second reactor (2) having supply means for supplying gases and materials in the various temperature zones, a cooler (3) is provided at the downstream of the said second reactor for the reaction products and for pre-heated feed gas and plasma gas, the said cooler (3) being followed by separation means (4, 7) consisting of a cyclone (4) for separating coarse particles from the carbon component connected to a filter device (7) from which carbon of the desired particle size and structure is filtered out to a silo (8) for further processing and a pipe (9) is provided for transfer of hydrogen

The diagram illustrates a plasma torch system for slag processing. Key components include:

- Gas Supplies:** Hydrogen supply (12), Argon supply (15), and Nitrogen supply (14).
- Plasma Generation:** A reactor (2) where plasma gas (1) is processed. It includes a diff. cooler (3) and treated plasma gas (11).
- Slag Processing:** Molten slag (16) is fed into an evaporator (17) and then into a cyclone with a loader (4).
- Hydrogen System:** Hydrogen is compressed (9) and passes through a finishing cooler (6) before entering the reactor.
- Exhaust and Filtration:** The system includes a main filter (7), a filter silo (8), a drain trap (13), and a slag silo (5).
- Other Components:** A methane storage tank (18) and a flare stack (10) are also shown.

Drwgs. : 1 sheet)

180014

5 Claims

Drwg. : 1 sheet)

180015

2-407 GI/97

12 Claims

(Com. : 18 pages)

180017

Application No. 259/Mas/93 dated 7th April, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

16 Claims

A fluid flow control valve comprising a body with a valve chamber, a bonnet with a bore communicating with the chamber, a valve closure element in the chamber, and a valve stem connected to the valve closure element and extending through the bonnet bore, said valve further comprising :—

- (a) first means for backseating the valve stem on the bonnet to provide a pressure seal between said stem and bonnet, and
- (b) second means for backseating the valve stem on the bonnet, said second backseating means located to provide an initial radial pressure seal between the stem and the bonnet as the stem is moved axially to establish the pressure seal provided by the first backseating means.

(Compl. Specn. 10 pages;

Drawngs. 5 sheets.)

Ind. Cl. : 70 B

180018

Int. Cl.⁶ : C 25 B 11/04, 13/02.

A RECHARGEABLE HYDROGEN STORAGE CELL.

Applicant : OVONIC BATTERY COMPANY, INC., A CORPORATION OF THE STATE OF DELAWARE, USA, OF 1707 NORTH WOOD, TROY, MICHIGAN 48064, USA.

Inventors :

1. MICHAEL A. FETCENKO.
2. STANFORD R. OVSHINSKY.

Application No. 282/Mas/93 dated April 26, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

23 Claims

A rechargeable hydrogen storage cell comprising :

a negative electrode having the following composition :

(Ovonic Base Alloy)_a M_b

where

Ovonic Base Alloy represents an Ovonic alloy that contains 0.1 to 60 atomic percent Ti, 0.1 to 25 atomic percent Zr, 0.1 to 60 atomic percent V, 0.1 to 57 atomic percent Ni, and 0.1 to 56 atomic percent Cr, as described above :

a is at least 70 atomic percent;

M represents at least one modifier chosen from the group consisting of CO, Mn, Al, Fe, W, La, Mo, Cu, Mg, Ca, Nb, Si and Hf;

b is 0 to 30 atomic percent;

b > 0; and

a + b = 100 atomic percent;

a positive electrode; and

a separator chosen from the group consisting of an electrolyte retentive, fine fiber, having a thickness of approximately 5—12 microns nylon separator and a wettable polypropylene separator resistant to reaction with H₂ gas and alkaline electrolyte;

where the surface of said wettable polypropylene has been treated using radiation grafting or a chemical treatment.

(Compl. Specn. 38 pages;

Drawng. 1 sheet.)

Ind. Cl. : 190B, 107E.

180019

Int. Cl.⁶ : F01N 1/00.

FILTER SILENCER.

Applicant : ASEA BROWN BOVERI LTD. A SWISS CORPORATION, OF CH-5401 BADEN, SWITZERLAND.

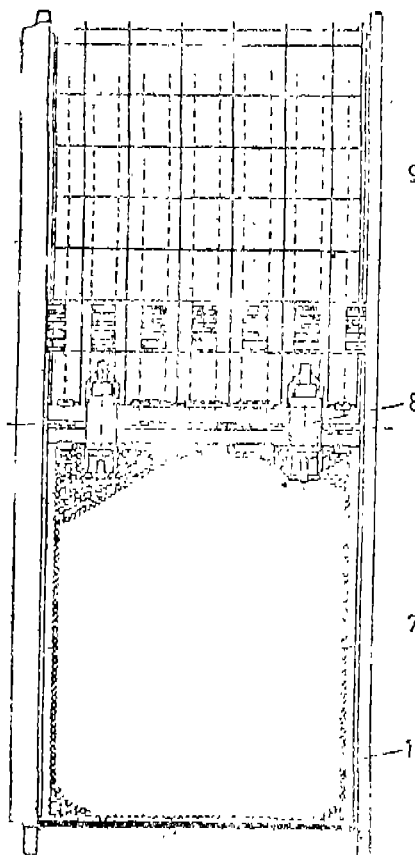
Inventor : RUDOLF RICANEK.

Application No. 285/Mas/93 dated 27th April, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

Filter silencer on the suction end of a compressor comprising plurality of annular silencer elements (2, 2a) having a constant distance apart from one another and consist of a plurality of segments (3) lined up in the peripheral direction and a filter (5) being located at the periphery of the silencer, characterised in that main body of the silencer is a cast monobloc, the silencer segments (3) are fixed to support part by radial cast-ones ribs with grooves (6) and the filter frame consists of a removable perforated sheet (7) or a plurality of removable perforated sheets (7) connected to one another by means of connecting elements (8).



(Compl. Specn. 10 pages;

Drawngs. 2 sheets.)

Ind. Cl. : 25 A

180020

Int. Cl.⁶ : B 32 B 31/00.

PROCESS FOR THE PRODUCTION OF CONCRETE TILFS.

Applicant : QUARELLA S.R.L., OF VIA NAPOLEONE, DOMEGLIARA, ITALY, OF ITALIAN NATIONALITY.

Inventor : MARIO COLLEPARDI.

Application No. 321/Mas/93 dated May 12, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

7 Claims

Process for the production of concrete tiles by means of cutting a block of concrete mixture, characterized in that said block of mixture is subjected to a preliminary treatment at ambient pressure for a duration of at least 24 hours until the compression strength reaches a value of at least 20 MPa, and to a second treatment with steam in an autoclave.

(Compl. Specn. 16 pages;

Drwngs. 2 sheets.)

Ind. Cl. : 32B

180021

Int. Cl.¹ : C07C 2/00.

PROCESS FOR PRODUCING LIGHT ALPHA OLEFINS FROM ETHYLENE.

Applicant : INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4 AVENUE DE BOIS PREAU, 92502, RUEIL MALMAISON, FRANCE.

Inventors :

1. CHAUVIN YVES
2. COMMERUC DOMINUQUE
3. HUGUES FRANCOIS
4. OLIVER HELEN
5. SAUSSINE LUCIEN.

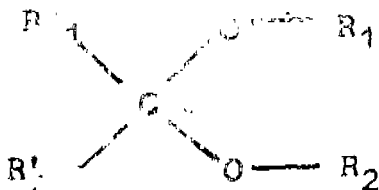
Application No. 448/Mas/93 dated 29th June 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

11 Claims

A process for producing light alpha olefins from ethylene comprising oligomerising ethylene in the presence of a catalyst composition consisting of a mixture of Zirconium compound of formula $ZrX_xY_yO_z$ in which X is a chlorine or bromine atom, Y is a radical chosen from within the group formed by RO- alkoxy, R_N-amido and RCOO- carboxylate groups, in which R is a hydrocarbyl radical having 1 to 30 carbon atoms, x and y has an integral values of 0 to 4 and z is equal to 0 or 0.5, the sum $x+y+2z$ being equal to 4,

(2) an organic compound of formula



in which R₁ and R₂ are a hydrogen atom or a hydrocarbyl radical having 1 to 30 carbon atoms and R₃ and R₄ hydrocarbyl radicals having 1 to 30 carbon atoms and (3) an aluminium compound of formula AlR''_n in which R'' is a hydrocarbyl radical having 1 to 6 carbon atoms, X is a chlorine or bromine atom and n is a number between 1 and 2 and recovering the alpha olefins from the reaction product in a known manner.

(Compl. Specn. 19 pages.)

Ind. Cl. : 152-E

180022

Int. Cl.⁴ : C 08 L 1/00; 23/00.

A POLYMERIC COMPOSITION AND A PROCESS FOR PREPARING THE SAME.

Applicants : (1) MICRONISERS PTY. LTD., AN AUSTRALIAN COMPANY NO. 006 825 538, OF 8 ENGLAND STREET DANDENONG, VICTORIA, AUSTRALIA AND (2) UNILVER AUSTRALIA LIMITED, AN AUSTRALIAN COMPANY NO. 044 050 828, OF 164 INGLES STREET PORT MELBOURNE, VICTORIA, AUSTRALIA.

Inventor : MICHAEL ARY BOS.

Application No. 466/Mas/93 filed July 8, 1993.

Divisional to Patent Application No. 876/Mas/91; Antedated to November 26, 1991.

Convention date : November 27, 1990. (No. PK 3559; Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

A polymeric composition comprising :

(a) from 80% to 99.99% by weight, based on the total weight of the polymeric composition of an organic polymer, selected from homopolymers or copolymers of aromatic or aliphatic polyolefins, vinylpolymers, acrylic polymers, polyesters, polyamides, rubber, and mixtures thereof; and

(b) from 0.01% to 20% by weight, based on the total weight of the polymeric composition of a zinc-containing polymeric material such as herein described having a particle size of less than 225 micron and being obtained from a reaction product of a divalent metal compound containing zinc, selected from one or more of zinc metal, zinc oxide, zinc carbonate, zinc hydroxide, zinc acetate, zinc benzoate and zinc sulphide, optionally together with one or more of calcium oxide, calcium carbonate, calcium hydroxide, calcium acetate and calcium benzoate, with a polyhydroxy compound in the presence of an acid or acid salt catalyst such as herein described, wherein the said divalent metal compound containing zinc and the said polyhydroxy compound are in substantially stoichiometric amounts.

(Com. 27 pages.)

Ind. Class : 128-G

180023

Int. Cl.⁴ : A 61 B 5/00

APPARATUS FOR THE PRELIMINARY DETECTION OF ABNORMAL LEVELS OF METABOLITES IN THE URINE OF A HUMAN OR ANIMAL.

Applicants : (1) CISR, A SOUTH AFRICAN BODY CORPORATE OF CORPORATE BUILDING, SCIENTIA, PRETORIA, TRANSVAAL PROVINCE, REPUBLIC OF SOUTH AFRICA; (2) POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN HIGHER EDUCATION, OF 11 HOFFMAN STREET, POTCHEFSTROOM TRANSVAAL PROVINCE, REPUBLIC OF SOUTH AFRICA, A SOUTH AFRICAN BODY CORPORATE AND (3) LEKTRATEK INSTRUMENTATION (PROPRIETARY) LIMITED, A SOUTH AFRICAN BODY CORPORATE OF PLOT 20, ELANDSHEUWEL, POTCHEFSTROOM, TRANSVAAL PROVINCE, REPUBLIC OF SOUTH AFRICA.

Inventors :

- (1) IODEWYK JACOBUS MIENIE
- (2) RONAL ADRIAN VAN STEENDEREN
- (3) ELARDUS ERASMUS
- (4) JULIUS HEINRICH UECKERMANN
- (5) WOUTER JOHANNES DE WET
- (6) HENNING JOHANNESFELS

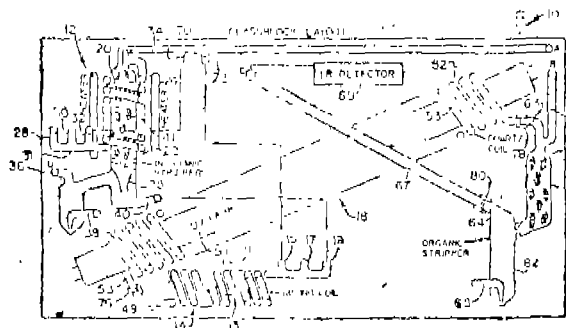
Application No. 495/Mas/93 dated July 19, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

7 Claims

Apparatus for the preliminary detection of abnormal levels of metabolites in the urine of a human or animal, the said apparatus comprising an ultraviolet oxidation unit for oxidising total metabolites in the urine sample to carbon dioxide, the unit comprising an elongate ultraviolet source having a wavelength of 230 - 260 nm and a power output

of 5 - 1600 watts, the coil having an uncoiled length of 2 - 16 m, and the ultraviolet source and the coil being mounted at an angle of 10° - 90° to the horizontal; an organic carbon stripper for stripping carbon dioxide gas from the oxidised sample, the stripper including a stripper unit for stripping carbon dioxide from the oxidised sample and the stripper unit having a sample inlet in liquid communication with the coil of the ultraviolet oxidation unit, for feeding the oxidized sample into the stripper unit, and a gas outlet; and a carbon dioxide detector for measuring the amount of carbon dioxide produced by oxidation of the sample.



(Com. 20 pages;

Drawings. 11 sheets.)

Ind. Class : 128-K

180024

Int. Cl.⁷ : A 61 F 9/00

AN OPHTHALMIC DEVICE.

Applicant & Inventor : JOHN LESLIE WILLIAMS, OF 116, BANBURY ROAD, KIDLINGTON, OXFORD OX5 2BA, UNITED KINGDOM, A BRITISH SUBJECT.

Application No. 510/Mas/93 dated July 23, 1993.

Convention date : June 9, 1988; (No. 8813697.0: United Kingdom).

Divisional to Patent Application No. 451/Mas/89; Antedated to June 8, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

An ophthalmic device in the form of a cup having a periphery substantially scaphoid in shape for contacting a facial region in the vicinity of an eye of a user; the cup defining an inner cavity accessible from the exterior of the device by way of at least a first and second port; the first port providing an inlet for a dispensing unit for material to be supplied to the eye and defining a first aperture of sufficient size to receive a dispensing unit containing a material for dispensing to the eye; the second port defining a second aperture of substantially smaller diameter than the first aperture, the second aperture providing a target for viewing by the eye characterised in that the first port (59) and the second port (60) are provided on a planar base region of the cup (51), remote from the periphery (52), and the first aperture (59) and the second port (60), a hinge (54) provided on the second portion (53) to pivot relative to the first portion (51) whereby outlet (64) of the dispenser (63) moves along an arc of a circle which does not pass through the device (50).

(Com. 16 Pages;

Drawings. 5 sheets.)

Ind. Cl. : 32 F3(a) & (c)

180025

Int. Cl.⁷ : C 07 C 27/00.

PROCESS FOR THE PREPARATION OF TEREPHTHALIC DIESTERS AND DIOLS FROM POLYESTERS BY DEPOLYMERISATION.

Applicant : HOECHST AKTIENGESellschaft, D-65926 FRANKFURT A MAIN, FEDERAL REPUBLIC OF GERMANY, CHEMICAL MANUFACTURERS, A CORPORATION ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors :

1. ULRICH HERTENSTEIN.
2. RUDOLF NEUGEBAUER.

Application No. 519/Mas/93 dated July 27, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Chennai Branch.

13 Claims

A process for the preparation of terephthalic diesters and diols comprising depolymerisation of a polyester containing at least one terephthalic acid unit, by reacting the same with an alkyl ester in the presence of known transesterification catalysts and subsequently transesterifying the said depolymer into terephthalic acid diester and diols by reacting the same with at least one monohydric alcohol at a temperature range of 140° to 300°.

(Com. 14 pages.)

Ind. Cl. : 128 F

180026

Int. Cl.⁷ : A 61 M 5/00.

A MECHANICALLY ACTUATED FLUID INJECTOR DEVICE.

Applicant : SENETEK PLC., A CORPORATION ORGANISED UNDER THE LAWS OF GREAT BRITAIN, OF 62A WELDON PARKWAY, MARYLAND HEIGHT, MISSOURI-63043, USA.

Inventor : JONATHAN L. WACKS.

Application No. 666/Mas/93 filed on 22-09-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

15 Claims

A mechanically actuated fluid injector device comprising : a tubular cartridge having a first end and a second end, an interior bore which is widened at said second end of said cartridge to form a needle housing assembly residence chamber for reversibly receiving a needle housing assembly and a puncturable end cap, sealing said second end of said cartridge; an ampule disposed within said cartridge bore having a first portion and a second portion, said ampule being capable of storing a fluid charge to be expelled therefrom; at least one piston slidably seated within said first portion of said ampule; a puncturable ampule end stopper rigidly attached to and sealing said second portion of said ampule; a needle housing assembly disposed in said cylindrical bore of said cartridge said needle housing assembly comprising a housing, a hollow injection needle rigidly attached to said housing having an internal end and an external end, said internal end of said needle extending through said needle housing assembly toward said puncturable ampule end stopper; and said external end of said hollow injection needle extending toward said puncturable end cap of said cartridge without protruding therefrom; and an actuator engageable with said tubular cartridge for propelling said ampule toward said needle housing assembly and said puncturable end cap for propelling said piston within said ampule toward said ampule end stopper for injecting said fluid charge through said hollow injection needle.

(Compl. Specn. 40 pages;

Drawings. 8 sheets.)

Ind. Cl. : 83 A 1

180027

Int. Cl.⁴ : A 23 G 9/00.**DEVICE FOR PRODUCING CAKES OF ICE CONFECTIONERY.**

Applicant : FRISCO-FINDUS AG, A SWISS BODY CORPORATE, OF RORSCHACH, SWITZERLAND.

Inventor : ALAIN DAOUSE.

Application No. 791/Mas/93 filed on 8 November 93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

A device for producing cakes of ice confectionery having an integrated decoration of crisp material, the said device comprising two coaxial rotary tubes (1, 11) for an ice cream composition and a liquid composition provided with rotary joints (9, 19; 20, 21), means for the common rotation of the tubes, isolation means (30) for the thermal isolation of the distribution channel for the ice cream composition from the distribution channel for the liquid composition and nozzles (6, 19) in the form of fishtails which are substantially parallel or substantially aligned and disposed radially with respect to the axis of rotation of the tubes.

Agent : DEPENNING & DEPENNING.

(Compl. Specn. 13 pages;

Drawngs. 3 sheets).

Ind. Cl. : 25-A & 27-A

180028

Int. Cl.⁴ : E 04 C 1/00.**A HOLLOW BLOCK STRUCTURAL SYSTEM.**

Applicant : INDIAN INSTITUTE OF TECHNOLOGY, III P.O., CHENNAI-600 036, TAMIL NADU, INDIA, AN AUTONOMOUS BODY SET UP BY THE GOVERNMENT OF INDIA AN ACT OF PARLIAMENT.

Inventors :

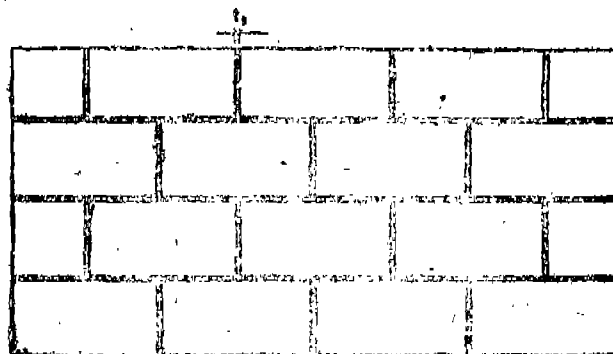
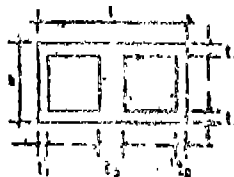
1. KRISHNAMURTHY RAMAMURTHY.
2. RAMAIAH AMBALAVANAN.
3. TIRUMANAMPETTAI PONNUSAMY GANESAN.
4. PANCHAPAKESAN KALYANASUNDARAM.

Application No. 813/Mas/93 dated November 12, 1993.

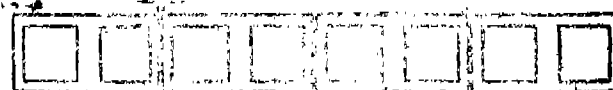
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

A hollow block structural system, comprising a first hollow block unit having a single core and a second hollow block unit having two cores, each such core being of identical configuration, the height (h), the thickness (t₄, t₆) of the face shells and the thickness (t₁, t₂) of the end web shells of either block and the thickness (t₅) of the mortar joint is equal to the thickness (t₃) of the mid web shell; and wherein the length (l) of the first block is equal to half the difference between the length () of the second block and the thickness (t₅) of the mortar joint, that is to say, $l = (- t_5) / 2$.



ELEVATION



PLAN

(Compl. Specn. 12 pages;

Drawngs. 6 sheets.)

Ind. Cl. : 49-E

180029

Int. Cl.⁴ : A 23 P 1/12.**COOKER EXTRUDER.**

Applicant : SCHAAF TECHNOLOGIE GMBH, A GERMAN COMPANY, OF OTTO-HAHN-STRASSE, D 65520 BAD CAMBERG, GERMANY.

Inventor : HEINZ SCHAAF.

Application and Provisional Specification No. 821/Mas/93, dated November 17, 1993.

Complete Specification filed : September 23, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

27 Claims

A cooker extruder for producing thermally treated biopolymers, comprising a feeding hopper, at least one screw, a nozzle and at least one spatula-pump, each of the said spatula pump having one matrix or plate of holes and at least one associated spatula element, the said spatula-pump mounted between the said screw and the said nozzle and in extension of the said screw.

(Prov. Specn. 9 pages;

Com. Specn. 32 pages;

Drawngs. 17 sheets).

Ind. Cl. : 83-A2

180030

Int. Cl.⁴ : A 23 C 9/00.**A PROCESS FOR PREPARING A DAIRY COMPOSITION.**

Applicant : SOCIETE DES PRODUITS NESTLE S.A., A SWISS BODY CORPORATE, OF VEVEY, CASE POSTALE 353, 1800 VEVEY, SWITZERLAND.

1. REINHARD WEHRINGER, GERMANY.
2. RAFAEL BERROCAL, SPAIN.
3. ROLF IOST, SWISS.

Application No. 874/Mab/93 dated December 7, 1993.

- Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

7 Claims

A process for preparing a dairy composition based on natural milk constituents comprising concentrating skim milk by ultra filtration or micro filtration to a factor of 3 to 6 times by volume and dissolving in the retentate, a quantity of lactose corresponding approximately to the dry weight of the said retentate.

-(Comp. 18 pages.)

Ind. Cl. : 70 C₉ Gr. [LVIII (5)]
164 C Gr. [LXVI (7)]
201 D Gr. [II (4)]

180031

Int. Cl. : C 02 F--1 /46.

PROCESS AND DEVICE FOR TREATMENT OF WASTE WATER FOR PURIFICATION THEREOF. (III)

Applicants : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AN INDIAN REGISTERED BODY, REGISTERED UNDER SOCIETIES REGISTRATION ACT XXI 1860 OF P. O. POLYTECHNIC AHMEDABAD-380 015, GUJARAT, INDIA.

Inventor : MR. SHANESH RASIKCHANDRA BHATT.

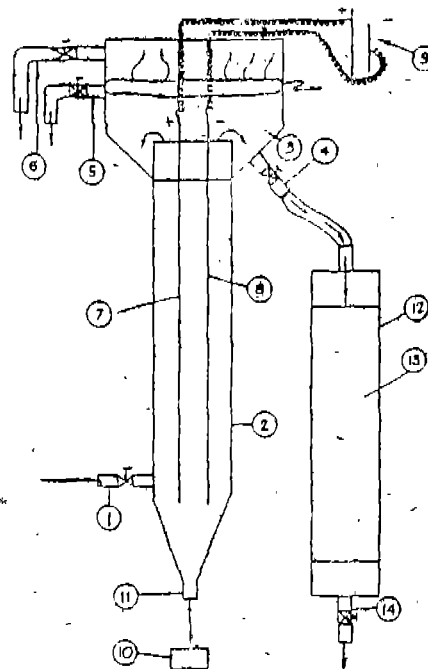
Application No. : 365/Bom/93 filed on 03-11-93.

Complete after provisional test on 01-11-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

11 Claims

A process for treatment of waste water, for purification thereof, comprising causing ascending flow of the waste water through a column made of plastics, having composite electrodes immersed therein, the anode of the said electrodes being constituted by combination of iron and aluminium, while the cathode being constituted by iron alone, the said column being provided on its top with a hopper-bottom receptacle, made of plastics, and introducing ozone under predetermined pressure, from below the column for ascending flow of ozone gas bubbles through the waste water which is subjected to electrochemical reaction on energisation of the said electrodes, whereby the waste water is subjected to synergistic combination of electrochemical, oxidation and dissolved air floatation treatments, and the impurities separated from the waste water due to such combined treatments, are drained out from top of the column, after being settled on the hopper-bottom receptacle, provided on top of the column, and the purified water is caused to be taken out from top of the said receptacle.



(Compl. Specns. : 23 pages;

Drugs. : Nil)

Ind. Cl. : 70, Gr. [LVIII (5)]

180032

164 C. Gr. [LXVI (7)]

Int. Cl. : C 02 F—1/46.

PROCESS AND DEVICE FOR TREATMENT OF WASTE WATER, FOR PURIFICATION THEREOF. (IV)

Applicants : AHMEDABAD TEXTILE INDUSTRY'S
RESEARCH ASSOCIATION, AN INDIAN REGISTERED
BODY, REGISTERED UNDER SOCIETIES REGISTRA-
TIONS ACT XXI OF 1860, OF P.O. POLYTECHNIC,
AHMEDABAD-380 015, GUJARAT, INDIA.

Inventor : SHAILESH RASIKCHANDRA BHATT.

Application No. : 366/Bom/93 filed on 03-11-93.

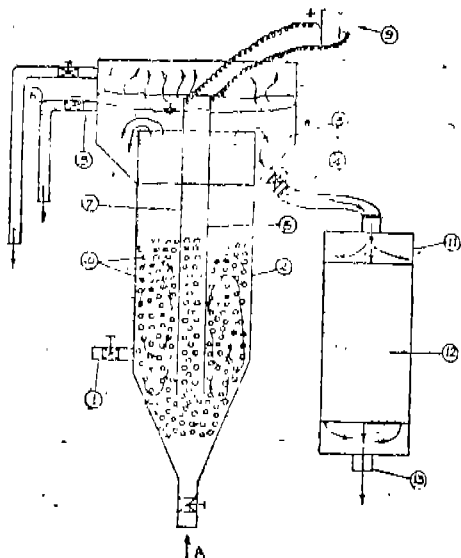
Complete after provisional left on 01-11-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

10 Claims

A process for treatment of waste water, for purification thereof comprising causing ascending flow of the waste water through a column made of plastics, having composite electrodes immersed therein, the anode of the said electrodes being constituted by combination of iron and aluminium, while the cathode being constituted by iron alone, the said column being provided on its top with a hopper-bottom receptacle made of plastics, so that on energisation of the said electrodes, the ascending flow of the waste water is subjected to electrochemical reaction, the said column further having activated carbon in granulated form in the waste under treatment, whereby the waste water, on energisation of the electrodes, is subjected to electrochemical treatment as well as fluidisation caused by the granular particles of the activated

carbon, for separation of the impurities of the waste water and settlement thereof in the bottom hopper receptacle to be drained out through the outlet therefor.



(Prov. Specn. 13 pages;

Drgs. 1 sheet.)

(Compl. Specns. : 25 pages;

Drgns. : Nil)

Ind. Cl. : 70 C₃ GR. [LVIII (5)]

164 C
201 D

180033

Int. Cl. : C02 F—1/46.

PROCESS AND DEVICE FOR TREATMENT OF WASTE WATER, FOR PURIFICATION THEREOF (V).

Applicants : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AN INDIAN REGISTERED BODY, REGISTERED UNDER SOCIETIES REGISTRATIONS ACT XXI OF 1860, OF P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

Inventor : SHAILESH RASIKCHANDRA BHATT.

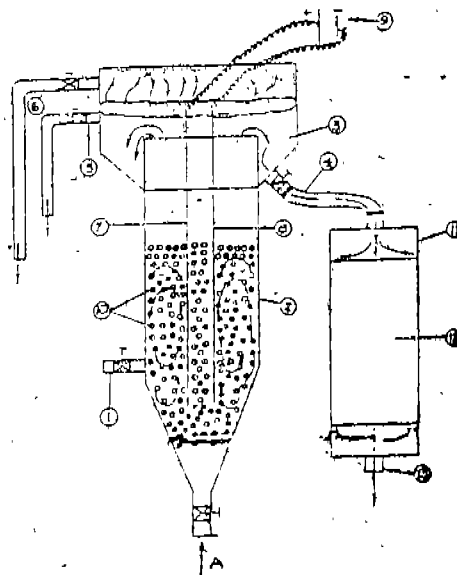
Application No. : 367/Bom/93 filed on 01-11-93.

Complete after provisional left on 01-11-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

10 Claims

A process for treatment of waste water, for purification thereof, comprising causing ascending flow of the waste water through a column made of plastics, having composite electrodes immersed therein, the anode of the said electrodes being constituted by combination of iron and aluminium, while the cathode being constituted by iron alone, the said column being provided on its top with a hopper-bottom receptacle made of plastics, so that on energisation of the said electrodes, the ascending flow of the waste water, is subjected to electrochemical reaction, the said column further having ceramic/glass particles mixed with the waste water under treatment, whereby the waste water, on energisation of the electrodes, is subjected to electrochemical treatment as well as fluidisation, caused by the ceramic/glass particles, for separation of the impurities of the waste water and settlement thereof in the bottom hopper receptacle to be drained out through the outlet therefor.



(Provisional Specification : 12 pages; Drawings : 1 Sheet)

(Complete Specifications : 23 pages; Drawings : Nil)

Ind. Cl. : 55 E₂+E₄ Gr. [XIX (1)]

180034

Int. Cl. : A 61 K—31/015, 31/035.

A PROCESS OF MANUFACTURING CHEMICAL COMPOSITIONS COMPRISING CYCLO AND BICYCLO ALKENES WHICH HAVE ANTI-ANDROGENIC ACTIVITY.

Applicants : COSMOS PHARMACEUTICALS CORPORATION, A CORPORATION OF DELAWARE HAVING A PLACE OF BUSINESS AT 4400 MACARTHUR BOULEVARD, SUITE 270, NEWPORT BEACH, CALIFORNIA 92660, U.S.A.

Inventor : LARRY C. FORD.

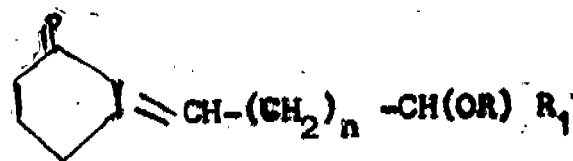
Patent Application No. : 393/Bom/93 filed on 18-11-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

08 Claims

A process for manufacturing a compound of the formula

(i)



where R is H, alkyl of 1 to 6 carbons; or CO-R₂ where R₂ is alkyl of 1 to 6 carbons;

R₁ is H, CH₃, or (CH₂)_m-CH₃;

n is an integer having the values of 2 to 10, and

m is an integer having the value of 1 to 6;

comprising of reacting a 3-acyloxy-cyclohexanone with triethyl-phosphonium salt derived from triphenyl phosphine and a halogenated alkoxyalkane of the formula : $XCH_2(CH_2)_n-CH(OR)R_1$ as herein described,

where X is bromo, chloro, or iodo, and isolating said product of the said formula (i);

dehydrating the resulting tertiary alcohol;

removing the ketal forming ethylene glycol moiety to provide a ketone, removing the TBS group to provide an alcohol and

isolating the compound of the said formula (i).

(Compl. Specs. : 52 pages;

Drawings : Nil)

Ind. Cl. : 128 G [XIX(2)]

180035

Int. Cl. : C 12 M—01/28.

SINGLE INOCULATION MULTIMEDIA (SIM) BLOOD CULTURE UNIT.

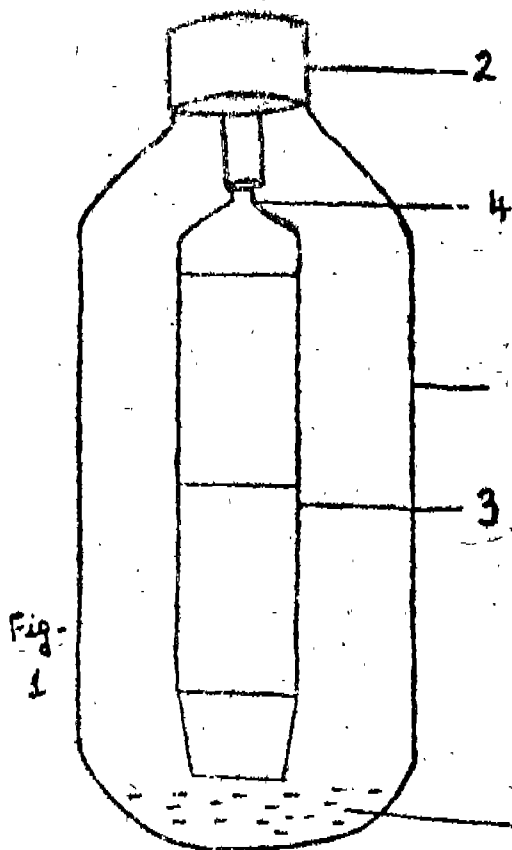
Applicant & Inventor : DR. PAL RAMPRASAD BALLKARAN, MUNICIPAL BLDS., NO. 5, GOVT. COLONY, HAJI ALI, BOMBAY-400 034, OF INDIAN NATIONALITY.

Application No. : 360/Bom/93 filed on 01-11-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-13.

4 Claims

A single inoculation multimedia (SIM) culture unit comprising of a transparent bottom with a closer unit having holding means for suspending a plastic strip having plurality of compartments to accommodate different solid culture media into the said bottle containing clinical sample for the detection of microorganisms without opening the bottle for subculturing.



(Complete Specifications : 7 pages;

Drawing : 1 Sheet)

Ind. Cl. : 170 A [XI III (4)]

180036

Int. Cl. : C11D 3/08, 3/39, 3/395.

PARTICULATE DETERGENT COMPOSITION CONTAINING ZEOLITE MAP AND PEROXYACID BLEACH.

Applicants : HINDUSTAN LEVER LTD., 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : ANDREW PAUL CHAPPLE.

Application No. : 416/Bom/1993 filed on Dec. 8 1993.

U.K. Convention date Dec. 8, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-13.

19 Claims

A particulate stable bleaching detergent composition comprising :

- (a) from 5 to 60 wt. of one or more detergent-active compounds such as herein described,
- (b) from 10 to 80 wt. of one or more detergency builders such as herein described including alkali metal aluminosilicate,
- (c) a bleach system comprising from 2 to 10 wt. of an organic peroxyacid such as herein described and

(d) optionally other detergent ingredients to 100 wt. : all percentages being based on the detergent composition, wherein the alkali metal aluminosilicate comprises zeolite P having a silicon to aluminium ratio not greater than 1.33 (zeolite MAP).

(Complete Specifications : 22 pages;

Drawing : Nil)

Ind. Cl. : 189 [LXVI] (9)

180037

Int. Cl. : A 61 K—7/42.

PROCESS FOR THE PREPARATION OF NOVEL SUBSTITUTED 12—KETO STEARIC ACID DERIVATIVE FOR USE AS SUNSCREEN COMPOUND.

Applicants : HINDUSTAN LEVER LTD., 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) MAYARA EASWARAN NARAYAN NAMBUDDIRY.

(2) RAMAMOHAN RAO BENDAPUDI,

(3) IYER VARADARAJAN NAGARAJAN.

Application No. : 24/Bom/94 filed on Jan. 25, 1994.

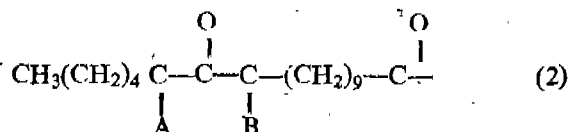
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-13.

13 Claims

Process for the preparation of novel substituted 12—keto stearic acid derivative for use as sunscreen compound having the structure (1)

X-R (i)

wherein X is represented by the general structure (2)



where A and B are individually hydrogen or CH-Ar providing that when A is hydrogen, B is CH-Ar and when B is hydrogen, A is CH-Ar;

Ar is a substituted aromatic group selected from substituted phenyl, naphthyl, anthryl and phenanthryl;

R is $-\text{OR}_1$; $-\text{NHR}_1$; or $-\text{N}$
 R_1

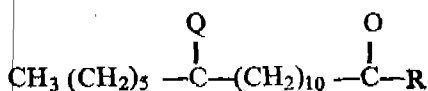
R is $-\text{H}$; $-\text{C}_n\text{H}_{2n+1}$; $-\text{CH}(\text{CH}_3)_2$; $(\text{CH}_2)_n\text{N}$
 $(\text{R}_2)_3\text{Y}$; or salts such as Na, NH_4 or trialkyl ammonium,

R_2 is $\text{C}_n\text{H}_{2n+1}$

n is 1 or 2

Y is Cl, Br or OH

which comprises condensing 12-keto stearic acid or its methyl ester having the structure (3) wherein R_2 is OCH_3 with the compound ArCHO in presence of acid and optionally converting the methyl ester to the acid or its salts by conventional process.



(Complete Specification : 39 pages;

Drawing : Nil)

(Provisional Specification : 37 pages;

Drawings : Nil)

Ind. Cl. : 189 Gr. [(LXVI)(9)]

180038

Int. Cl. : A 61 K-07/68

CLEANSING COMPOSITION

Applicants : HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913 OF HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, MUMBAI-400 020, MAHARASHTRA, INDIA.

Inventor : PAUL ANTHONY BOWSER

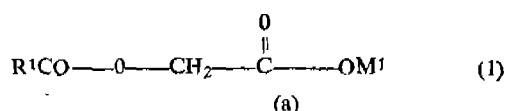
Patent Application No. : 39 BOM/94 FIELD ON
 *03-02-1994. G. B. PRIORITY DATED 03-02-93.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

6 Claims

A cleansing composition which comprises, in addition to water,

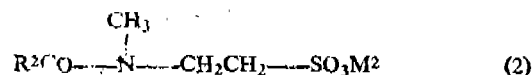
(a) from 10 to 35% by weight of one or more acyl glycolate(s) of the following structure (1)



where R^1CO represents a C_6 to C_{16} acyl radical; a is an integer from 1 to 3; M^1 represents hydrogen or a counterion chosen from alkali metal, ammonium or a substituted ammonium group having one or more C_1 to C_3 alkyl or hydroxy alkyl group(s); and

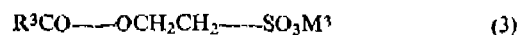
(b) from 5 to 25% by weight of one or more co-surfactant(s) chosen from the following compounds (A) to (O) :

(A) N-Methyl-N-acyl taurates of the following structure (2)



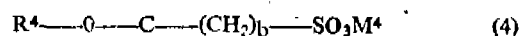
where R^2CO represents a C_{10} to C_{18} acyl group; and M^2 is an M^1 in structure (1);

(B) acylisethianates of the following structure (3)



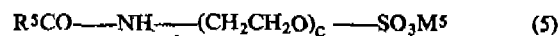
where R^3CO represents a C_{10} to C_{18} acyl group; and M^3 is as M^1 in structure (1) ;

(C) Alkylesters of w-sulphonated carboxylic acids of the following structure (4)



where R^4 represents a C_{10} to C_{18} alkyl group; M^4 is as M^1 in structure (1); and (b) is an integer from 1 to 3;

(D) Fatty acylamido polyoxyethelene sulphates of the following



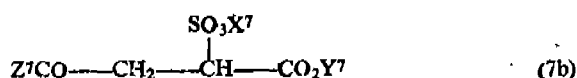
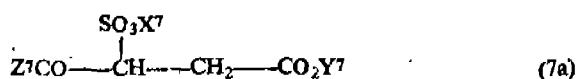
where R^5CO represents a C_{10} to C_{18} acyl group; M^5 is as M^1 structure (1); and c is an integer from 1 to 10;

(E) Fatty acid ployglyceride sulphates of the following structure (6)



Where R^6CO represents a C_{10} to C_{18} acyl group; M^6 is as M^1 in structure (1); and d is an integer from 1 to 4;

(F) Mono substituted sulposuccinates of the following structure (7a) or (7b)



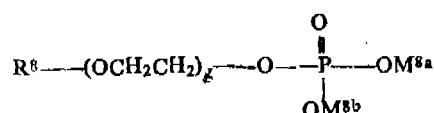
where Z^7 is chosen from the following groups (i) to (iii)

(i) $\text{R}^a\text{CO}-\text{NH}-(\text{CH}_2\text{CH}_2\text{O})_e-$, where R^aCO represents a C_{10} to C_{18} acyl group; and e is an integer from 1 to 10;

(ii) $\text{R}^b-\text{O}-$, $(\text{CH}_2-\text{CH}_2\text{O})_f-$, where R^b represents a C_{10} to C_{18} alkyl group; and f is an integer from 1 to 10;

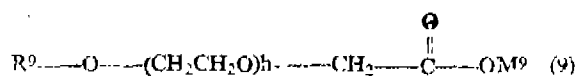
(iii) $\text{R}^c-\text{O}-$, where R^c represents a C_{10} to C_{18} alkyl group; and X^7 and Y^7 are independently from each other chosen from the counterions represented by M^1 in structure (1) ;

(G) Mono substituted phosphates of the following structure (8)



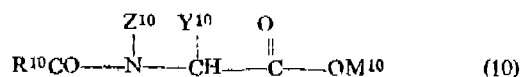
where R^8 represents a C_{10} to C_{18} alkyl group; M^{8a} and M^{8b} are independently from each other chosen from the group species represented by M in structure (1); and g is an integer from 0 to 3;

(H) alkyl poly (ethylene glycol) acetates of the following structure (9)



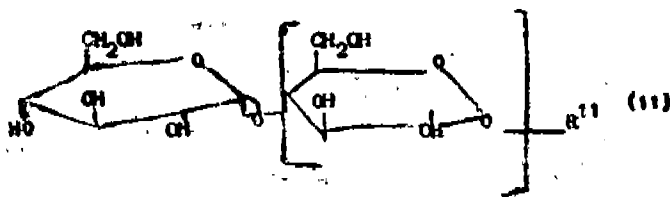
where R^9 represents a C_{10} to C_{18} alkyl group; M^9 is as M^1 in structure (1); and h is an integer from 1 to 10;

(I) Salts of N-acyl α -amino acids of the following structure (10)



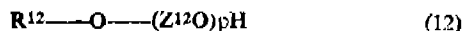
Where $R^{10}CO$ represents a C_{10} to C_{18} acyl group; Z^{10} represents H or C_1 to C_2 alkyl; Y^{10} represents H, C_1 to C_3 alkyl or C_1 to C_3 alkyl substituted with a $COOH$ group; and M^{10} is chosen from the counterions represented by M^1 in structure (1);

(J) Alkyl polyglucosides of the following structure (11)



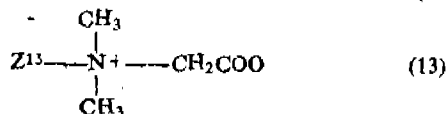
where R^{11} represents a C_{10} to C_{14} alkyl group; and n is an integer from 1 to 3;

(K) Poly (oxyalkylene) fatty alkyl ether of the following structure (12)



where R^{12} represents a C_8 to C_{18} alkyl group; Z^{12} is a C_2 or C_3 alkylene group; and p is an integer from 1 to 10;

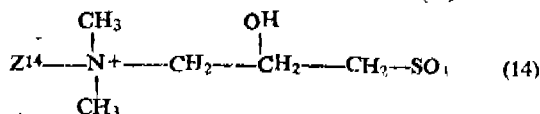
(L) N-substituted betaines of the following structure (13)



where Z^{13} represents

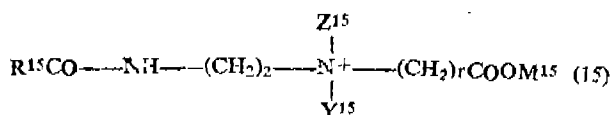
- (i) a C_{10} to C_{18} alkyl group; or
- (ii) a $R^{13}CO-NH-(CH_2)_3$ group, where $R^{13}CO$ represents a C_{10} to C_{18} acyl group;

(M) Sultaines of the following structure (14)



where Z^{14} represents a C_{10} to C_{18} alkyl group or a C_{10} to C_{18} acyl amido group;

(N) Alkyl amphocarboxylates of the following structure (15)



where $R^{15}CO$ represents a C_{10} to C_{18} acyl group; Z^{15} and Y^{15} are independently from each other chosen from H, CH_2CH_2OH or $(CH_2)_rCOO^-$; r is 1 or 2; and M^{15} is as M^1 in structure (1).

Comp. specn. 35 pages, Drawings, Nil.

Ind. Cl. : 94 F Gr [XXXIII (a)]

180039

Int. Cl. : C 13 D-1/06

A CLOSED PRESSURE CHUTELESS MULTIPLE ROLLER MILLING SYSTEM.

Applicants & Inventor : BHAUSAHEB BAPURAO NIKAM 526, NARAYAN PETH, PUNE-400 030, MAHARASHTRA, INDIA, AN INDIAN CITIZEN.

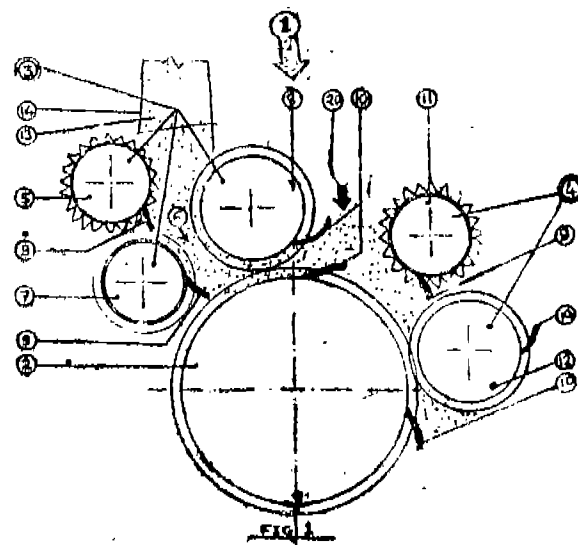
Patent Application No. 334/Bom/94 filed on 21-07-94.

Post dated to 09-12-96 U/S 17(2) of the Patents Act, 1970.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

15 Claims

A closed pressure chuteless multiple roller milling system comprising of one or more mill module formed like a planet with or without conventional two/three roll mill module in tandem each of the said planet like mill module 1 comprising of a large size perforated discharge roll 2 having a feeder-cum-crushing unit 3 and at least one more crushing unit 4 provided along the periphery of the said discharge roll at a desired gap, providing an inhibition stage 20 in between the said two units, 3, 4 the said feeder-cum-crushing unit 3 consisting of atleast one toothed feeder roller 5 with juice drainage means, 9 a feed roll 7 and a top roll and the said at least one more crushing unit 4 consisting of a toothed feeder roller and a top roll 12.



(Complete Specification : 11 Pages; Drawings : 1 Sheet.)

Ind. Cl. : 123 Gr [1 (4)]

A 01N 63/04 &

180040

Int. Cl. : C 05 F-11/08

A PROCESS OF MANUFACTURING POWDERED ORGANIC MANURE FOR CREATING A SOIL INNOCULUM.

Applicant & Inventor : DILIP SHANTARAM DHAIKAR AN INDIAN CITIZEN INDUSTRIAL ASSURANCE BUILDING, CHURCHGATE, MUMBAI-400 020, MAHARASHTRA-INDIA.

Patent Application No. 383/Bom/94 filed on 10-08-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

6 Claims

1. A process of manufacturing powdered organic manure for creating a soil inoculum comprising the steps of;

- (a) growing in agar slats a culture of non-infective, non-pathogenic a virulent form of neutral Fusarium fungi by known microbiological procedures;
- (b) transferring the neutral culture of step (a) into a transparent bottle containing grains such as wheat/barley/serghum/millet and the like and allowing it to grow and mature at a temp varying from 25-28 deg C, till white fungi covers all the grains in said bottle;
- (c) vigorously stirring the product of step (b) with of finely ground pulverized powder of well composed sun dried cow-dung in the ratio of 1:25 i.e. 4% by weight of cow dung manure till the spores of said inoculum get evenly distributed throughout said pulverized mass of cow dung manure before packing and sealing in airtight plastic or like bags.

(Complete Specification : 9 Pages; Drawings : Nil.)

Ind. Cl. : 98G, Gr (VII) &
50 D, Gr (VII) (1)

Int. Cl. : F24 F-3/06, 3/12

IMPROVED EVAPORATOR FOR AIR CONDITIONER SYSTEM IN AHU (AIR HANDLING UNIT).

Applicant & Inventor : SURENDRA HIMMATLAL SHAH AN INDIAN CITIZEN, 45 B. THACKER INDUSTRIAL ESTATE, N. M. JOSHI MARG, MUMBAI-400 011. MAHARASHTRA, INDIA.

Patent Application No. 284/Bom/93 filed on 03-09-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

4 Claims

Improved evaporator 15 for air conditioner system in AHU (Air Handling Unit) comprises of a pair of 'back-to-back' coupled high and low pressure tube coils 15A-15B coupled to each other through a 3-way coupling forming a condensate trap 19 wherein one side 'A' thereof being coupled to outlet 17B of said high pressure coil, the inlet 17A thereof being coupled to outlet 25 A of a condenser 25; the second side 'B' of said trap being coupled to one end of angularly inclined blind pipe forming a vapour collector 18, and the third side 'C' of said trap is coupled to a down pipe 15C coupled to inlet 20A of said low pressure coil 15B through a restrictor valve 16 and the outlet 20B thereof being connected to suction side 12A of refrigerative compressor 12 and the outlet 12B thereof is coupled to inlet 25B of a condenser 25 forming a closed loop refrigerant circulating circuit.

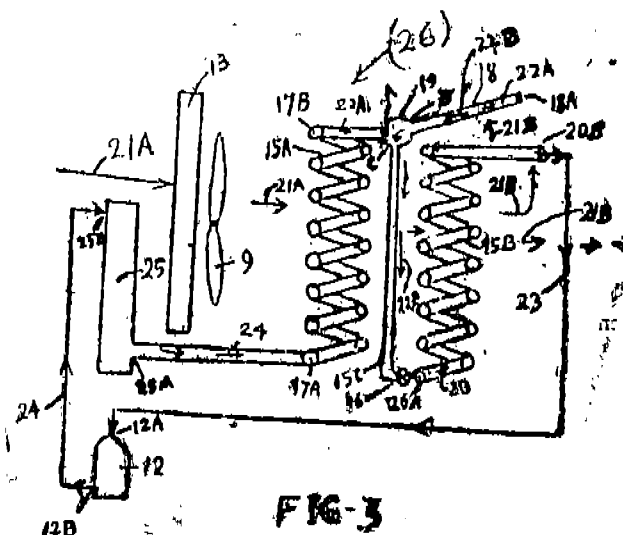


FIG-3

(Complete Specification : 11 Pages; Drawings : 02 Sheets.)

Ind. Cl. 172F, Gr. [XV]

180042

Int. Cl. : D01H-13/26

A COMPUTER BASED UNIVERSAL TENSILE TESTING MACHINE.

Applicants : M/S. STAR PRECISION ELECTRONICS (1) LTD., OF 78/2, G.I.D.C., MAKARPURA, BARODA-390 010, GUJARAT, INDIA, INDIAN COMPANY.

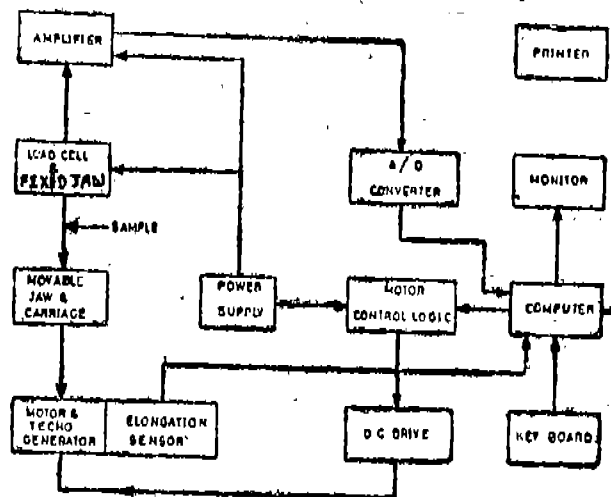
Inventors : (1) MR. ROHIT MANHARLAL MEHTA
(2) MR. SUBHASH SAKHARAM NAIK
(3) MR. PREM PAL SINGH ARYA.

Patent Application No. 306/Bom/94 filed on 01-07-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

3 Claims

A computer-based universal testing machine comprising a main frame having fixed jaw, for clamping one end of test material at the top of the frame connected to the load cell and lower moving jaw for holding other end of test sample and traversing at constant speed with the help of two precision ball screws on each side of the frame driven by D.C. drive motor and techo generator controlled by motor control logic connected to computer; amplified output of the said load cell is connected to computer through Analog Digital Converter; an elongation sensor provided to said motor and techo generator is connected to said computer; power supply unit in the said main frame supplies power to said load cell, amplifier and motor control logic; and keyboard, monitor and printer is provided to the said computer for controlling operation of main frame for testing.



(Com. Specn. 10 Pages;

Drawings 2 Sheets.)

Ind. Cl. : 172 F-Gr [XV]

180043

Int. Cl. : D04H-13/26

A COMPUTER BASED YARN EVENNESS AND HAIRINESS EVALUATION SYSTEM.

Applicants : M/S. STAR PRECISION ELECTRONICS (I) LTD., OF 78/2, G.I.D.C., MAKARPURA, BARODA-390 010, GUJARAT, INDIA, AN INDIAN COMPANY.

Inventors :

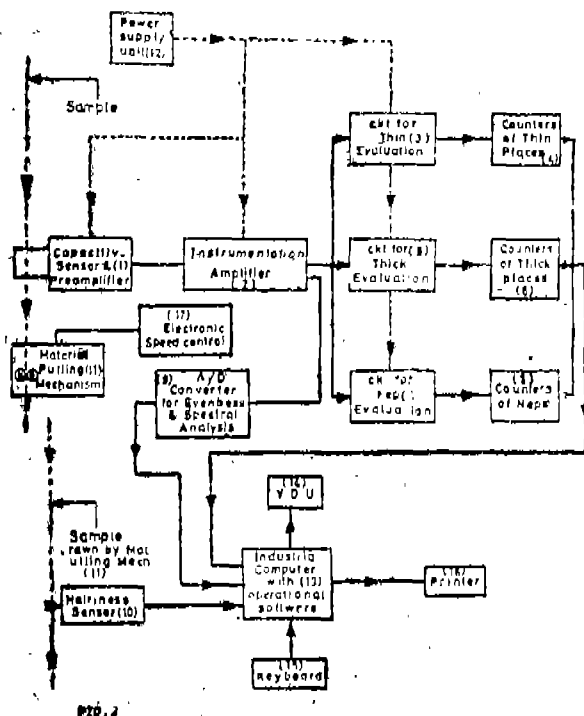
- (1) MR. ROHIT MANHARLAL MEHTA
- (2) MR. SUBHASH SAKHARAM NAIK
- (3) MR. PREM PAL SINGH ARYA.

Patent Application No. 307/Bom/94 filed on 01-07-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

5 Claims

1. A computer-based Yarn evenness and hairiness evaluation system comprising an evenness and hairiness monitoring body having a capacity evenness sensor 1 and clamped hairiness sensor 10 to test yarn passing through the slide assembly from thread tensioner and drawn by the drive rolls; the said capacitance sensor 1 includes a preamplifier 2, output of which is connected to an instrumentation amplifier 3 and further connected to analog digital converter 9 and also output of said instrumentation amplifier 2 is connected to three nos. of selected filter circuits 3, 5, 7 High output connected to counter circuits; 4, 6, 8 a computer, 17 having video monitor 14, keyboard and printer 12, receives output signals of said analog digital converter 5 and commoned output of said three counters and also hairiness sensor 10; and a power supply unit 12 in the said monitor body supplies power to said capacitive sensor, instrumentation amplifier, drive rolls, filters and counters.



(Complete Specification : 15 Pages; Drawings : 2 Sheets.)

Ind. Cl. : 69 A

180044

Int. Cl. : H 01 H 43/06 45/00.

AN ELECTRONIC RELAY FOR PROTECTION OF ELECTRICAL POWER SYSTEMS NETWORKS.

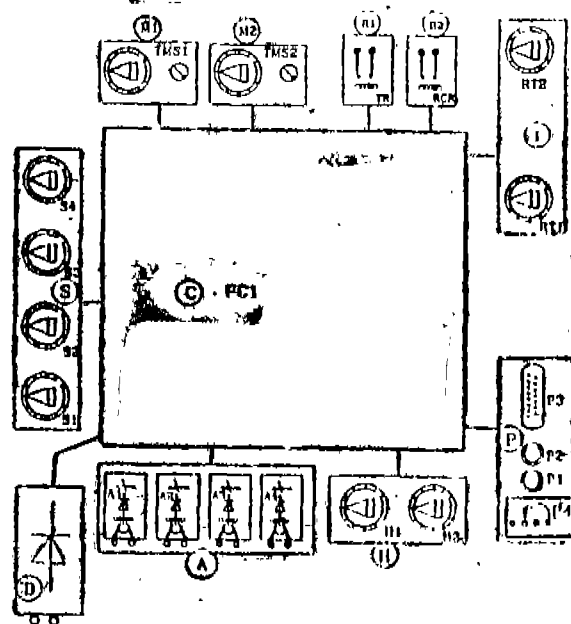
Applicants : MANOHAR PUNDALIK KULKARNI AND SHRIKRISHNA DATTATRAYA NAIK. PARTNERS OF M/S. ASHIDA ELECTRONICS OF D/9 DEBONAIR SOCIETY, ALMEIDA ROAD, THANE MAHARASHTRA, INDIA.

Inventor : SUYASH MANOHAR KULKARNI.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-400 013.

5 Claims

An "Electronic Protection Relay for Protection of Electrical Power System Networks" : comprises a pre-programmed micro-controller, having stabilised power supply converter unit interconnected to a set of Signal receivers, which continuously monitors the load currents, a set of Limiters to assist the said Controller to compare the monitored signals, a set of switched and continuously variable Time Multiplier potentiometers to assist the controller in calculating the trip delay time; execution, a set of Relays for controlling Trip and Reclose functions as per the controller generated commands executions, a set of Time controlling potentiometers which controls the Reclose delay and Reclaim duration timings of auto-reclosing functions, a interface circuit which allows the measurement and logging of the relay monitoring signals and status to communicate to external monitoring measuring unit or communications links, and a set of high fault limiter potentiometers to assist to execute instant trip in high fault currents by passing IDMT timing as per figure 1.



(Complete Specification : 13 Pages; Drawings 3 Sheets.)

Ind. Cl. : 70C Gr. [LVIII (5)]
164 C Gr. [LXVI (3)]
201 D Gr. [II (4)]

180045

Int. Cl. : C02 F - 1/46

PROCESS AND DEVICE FOR TREATMENT OF WASTE WATER, FOR PURIFICATION THEREOF.

Applicant : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AN INDIAN REGISTERED BODY, REGISTERED UNDER SOCIETIES REGISTRATION ACT XXI OF 1860 OF P.O. POLYTECHNIC, AHMEDABAD 380 015, GUJARAT, INDIA.

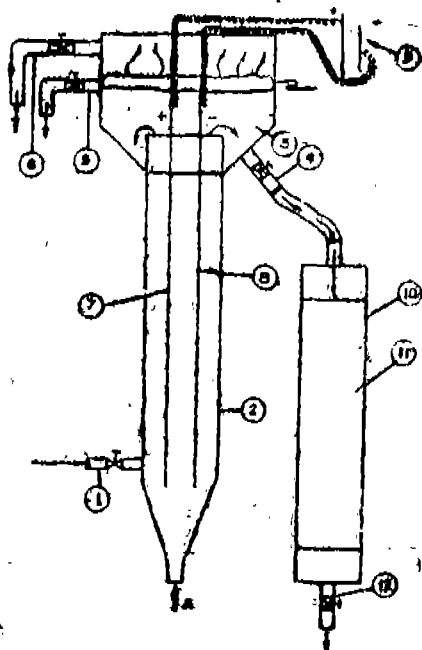
Inventor : SAILESH-RASIKCHANDRA BHATT.

Application No. 363/Bom/93 filed on 03-11-93 Complete after provisional left on 01-11-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

7 Claims

A process for treatment of waste water for purification thereof, comprising causing ascending flow of the waste water under treatment, through a column, made of plastics, having composite electrodes immersed therein, the anode of the said electrodes being constituted by combination of iron and aluminium, while the cathode being constituted by iron alone, the said column being provided on its top with a hopper-bottom receptacle made of plastics, so that on energisation of the said electrode, the ascending flow of the waste water is subjected to electrochemical reaction, whereby the impurities in the waste water are separated and are drained out from top of the column, followed by filtration of the water, so purified by passing it through a filter medium, and, optionally, if so required, sparging sub-microscopic bubbles of air in upward direction through the column, in the course of electrolysis of the waste water, for carrying the suspended solids in the waste water, under treatment, upwards, so as to be drained out through the outlet, provided on top of the column.



180046

(Provisional Specification : 11 Pages; Drwg. 1 Sheet.)

(Complete Specification : 20 Pages; Drwg. Nil)

Ind. Cl. : 70C₈ Gr. [LVIII (5)]
164 C Gr. [LXVI (7)]
201 D Gr. [II (4)]

180045

Int. Cl. : C02 F - 1/46

PROCESS AND DEVICE FOR TREATMENT OF WASTE WATER, FOR PURIFICATION THEREOF.

Applicant : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AN INDIAN REGISTERED BODY, REGISTERED UNDER SOCIETIES REGISTRATION ACT XXI OF 1860 OF P.O. POLYTECHNIC, AHMEDABAD 380 015, GUJARAT, INDIA.

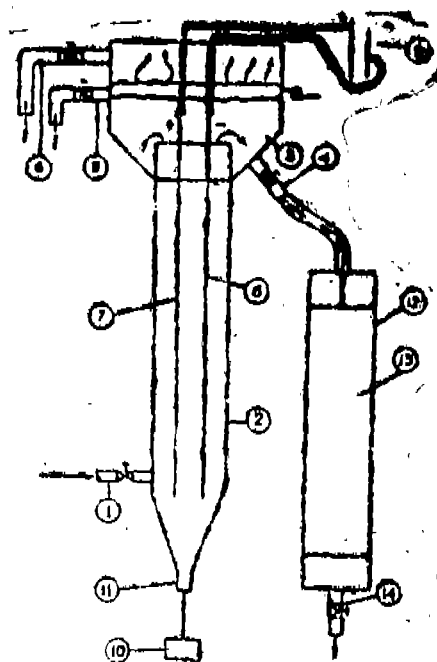
Inventor : SAILESH RASIKCHANDRA BHATT.

Application No. 364/Bom/93 filed on 03-11-93 Complete after provisional left on 01-11-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

10 Claims

A process for treatment of waste water for purification thereof, comprising causing ascending flow of the waste water through a column made of plastics, having composite electrodes immersed therein, the anode of the said electrodes being constituted by combination of iron and aluminium, while the cathode being constituted by iron alone, the said column being provided on its top with a hopper-bottom receptacle, made of plastics, and introducing gaseous oxygen, under pre-determined pressure, from below the column for ascending flow of oxygen gas bubbles through the waste water, which is subjected to electrochemical reaction on energisation of the said electrodes, whereby the waste water is subjected to synergistic combination of electrochemical, oxidation and dissolved air floatation treatments, and the impurities separated from the waste water due to such combined treatments, are drained out from top of the column, after being settled on the hopper-bottom receptacle, provided on top of the column, and, the purified water is caused to be taken out from top of the said receptacle.



(Prov. Specn. 12 Pages;

Drgs. 1 Sheet.)

(Comp. Specn. 21 Pages;

Drgs. Nil.)

Ind. Cl. : 167 C [XXXIV (4)]
198 B Gr. [XXXIV (5)]
D

180047

Int. Cl. : C 08 F - 8/12
C 08 J - 11/06
C 08 L - 67/02
B 29 B - 17/02
B 07 C - 5/342

A PROCESS AND APPARATUS FOR CONVERTING USED SYNTHETIC POLYMERIC CONTAINERS, TYPICALLY, BOTTLES BEING PREDOMINATELY POLY-ETHYLENE TEREPHTHALATE (PET) INTO PET FLAKES.

Applicants FUTURA INDUSTRIES LIMITED, AN INDIAN COMPANY, OF BHUPATI CHAMBERS, 13, METHREW ROAD, BOMBAY-400 004, MAHARASHTRA, INDIA.

Inventors :

- (1) RAMAKANT WAGLE
- (2) LAKSMINARAYANAPURAM RAMASWAMI SUBBARAMAN
- (3) RASESH SHAH.

Application No. 152/Bom/94 filed on 12-04-94 Complete after Provisional left on 12-7-95.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

7 Claims

A process for recycling synthetic polymeric wastes, predominantly containing PET material into PET flakes, the process comprising :

step of debaling waste received in bale form into layer form before sorting;

said debaled layers are disintegrated in a disintegrator in presence of steam;

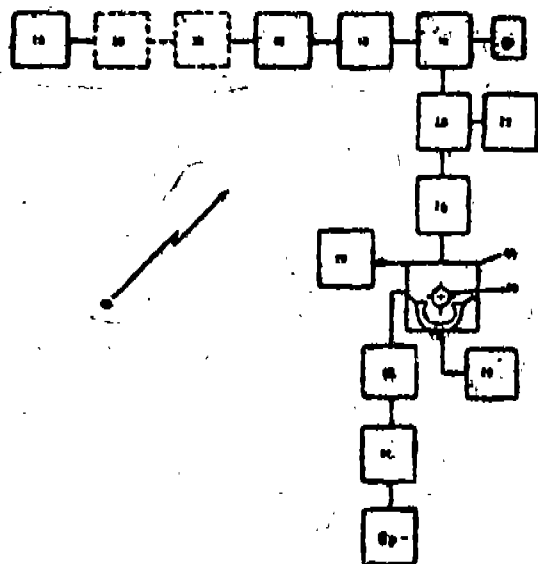
sorting of synthetic polymeric wastes into PET wastes, non-PET wastes, HPDE wastes, paper wastes, if all these wastes simultaneously occur in the synthetic polymeric wastes;

granulating the PET wastes in a granulator in the presence of water to produce PET flakes;

pre-washing the granulated PET flakes to remove traces of floating polypropylene, HPDE and paper wastes;

washing the granulated PET flakes in a centrifugal washer for removing of surface dirt from the granulated PET flakes by scrubbing;

feeding the scrubbed granulated PET flakes to a post wash separation tank for removal of light contaminants by flotation and heavy contaminants by gravity separation under constant agitation; and drying and storing the granulated PET flakes.



(Provisional Specification : 9 Pages;
(Complete Specification : 12 Pages;

Drwg. 1 Sheet.)
Drwg. Nil.)

Ind. Cl. : 172 D 2 [XX]

180048

Int. Cl. : D 01 H, 9/14

DEVICE TO CONTROL PLURALITY OF OPERATIONS OF RING FRAME WITH RESPECT TO POSITIONS OF RING RAIL USED IN SPINNING PROCESS IN A TEXTILE MILL.

Applicant & Inventor : NIYANTA ENGINEERING PVT. LTD., 202, MALATI COMPLEX, PAUD ROAD, KOTHRUD, PUNE-411029, MAHARASHTRA, INDIA.

Application No. 232/Bom/94 filed May 20, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

1 Claim

Device to control plurality of operations of ring frame with reference to position of ring rail used in spinning process in textile mill comprising a controller (24) consisting of power supply (25), a central processing unit (CPU) (27) which with the help of a keyboard (25) sets program in memory having a battery-back up (32), the said CPU is connected via input to a variety of sensors (36-40) such as delivery speed sensor (36), spindle speed sensor (37), full doff limit switch (38), ring rail bottom limit switch (39) all of which are mounted on ring frame, characterised in that there is provided a rotary encoder (40) for sensing position of the ring rail, the said encoder being connected to the input while the CPU (27) gets data from inputs to perform arithmetic operations on them and stores the same in memory to be shown on a display, the said CPU also being linked to host computer by serial link which in turn is connected to serial interface for the said CPU to compare the data from input with set program in memory and with real time clock and to generate control signals which are fed to the output module and then onwards to control panel comprising relays and motor control circuit for actuating the main motor, underwinding motor and autodoing solenoid.

(Complete Specification : 8 Pages; Drawing : 3 Sheets.)

Ind. Cl. : 80 A, H.K. Gr (VI)

180049

Int. Cl. : B 01 D-23/02

A FILTERING APPARATUS.

Applicants : EAGLE FLASK INDUSTRIES LIMITED AN INDIAN COMPANY AT TALEGAON 410 507, DISTRICT PUNE, MAHARASHTRA, INDIA.

Inventor : ALIMOHAMED CHAGANBHAI PADAMSEE.

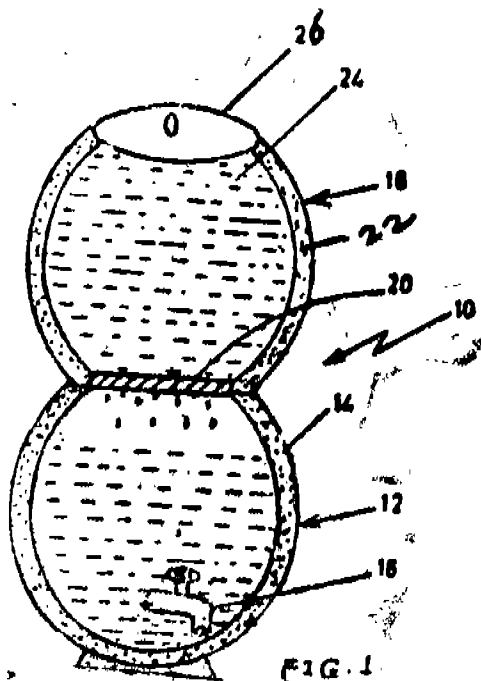
Patent Application No. 324/Bom/94 filed on 20-05-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

10 Claims

1. A domestic water filtering apparatus 10 comprising an earthenware first chamber 12 defined by a microporous hollow body 14 having a tap 16 fitted at or near its base for drawing predetermined quantities of water from the chamber, said first chamber being in communication with a second chamber 18 provided with a filtering means 20 for

retaining water and passing filtered water to the first chamber, the said second chamber being open 24 at the top for water filling and provided with a removable lid 26.



(Complete Specification : 8 Pages; Drawings : 2 Sheets.)

Ind. Cl. : 201 D II (4)

180050

Int. Cl. : CO 2F - 3/32
CO 7F - 7/00

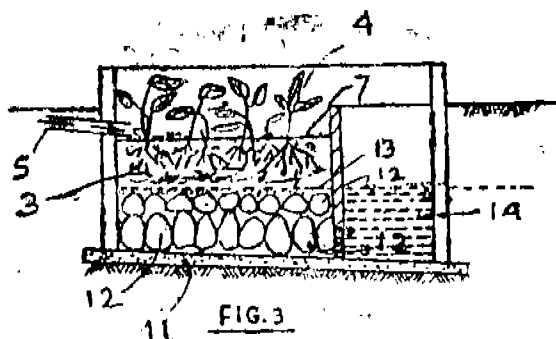
Applicant & Inventor : UDAY BHAWALKAR, A/3, KALYANT PUNE-411037 MAHARASHTRA, INDIA.

Application No. 276/Bom/1994 filed June. 23, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

3 Claims

Method of producing vermicastings as manure from various sources of waste water comprising a bed, over which there is spread a layer of vermicastings of 20 to 50 cms height and over which a variety of plants with succulent leaves are grown water from sewage, other waste waters, slurries or sludges are let in and allowed to settle or slowly flow downwards and horizontally whereby the vermicastings will absorb and devour the organic waste and convert the same further into more vermicastings which further to be scraped, gathered, collected and removed primarily as effective manures.



(Complete Specification : 7 Pages; Drawings : 3 Sheets.)

Ind. Cl. : A 61 M 1/00.

180051

Int. Cl. : 128 G

A FLUID COLLECTION RESERVOIR.

Applicant : DEKNATEL TECHNOLOGY CORPORATION, OF 600 AIRPORT ROAD, P. O. BOX 2980, FALL RIVER, MASSACHUSETTS 02722-2980, UNITED STATES OF AMERICA, A CORPORATION OF THE STATE OF DELAWARE, U.S.A.

Inventors :

1. DOUGLAS MICHAEL SPRANGER, US.
2. KARL DALLAS KIRK, US.
3. ROBERT COHEN, US.
4. PRESTON JESS KEELERS, US.
5. JEFFREY ALLEN STEIN, US.

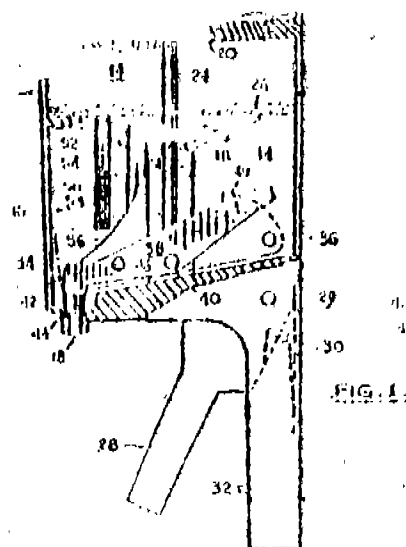
Kind of Application : Complete.

Application for Patent No. 272/Del/90 filed on date 20-03-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Branch Law Delhi-110 005.

9 Claims

A fluid collection reservoir (10) comprising a housing (12) having an inlet, a collection chamber (14), an outlet (18), and means (16) for controlling the flow of fluid through the outlet (18), said controlling means (16) comprising float member (34) being movably responsive to a level of fluid in said reservoir (10), lever means (38) comprising means (42) for sealing said reservoir outlet (18) against fluid flow therethrough, means coacting with said lever means (38) for displacing said level means (38) to a position releasing said reservoir outlet seal (42) when said level of fluid is above a predetermined level of fluid, and means for releasably latching said float member (34) and said lever means (38) for maintaining said lever means (38) in said releasing position to allow fluid flow through said outlet (18), said latching means configured to disengage when said fluid level reaches a minimum level freeing said lever means (38) and reestablishing said outlet seal 42.



(Compl. specn. 13 pages;

Drawings. 5 sheets.)

Ind. Cl. : 27 B & 101 F

180052

Int. Cl. : E 02 D 5/00.

APPARATUS FOR DRIVING ANCHORS IN THE GROUND.

Applicant : BERNARD CASTAGNER, OF 4 CHEMIN DES BOURGOGNES, 77450 COUPVRAY, FRANCE AND CLAUDE WAITZENEGGER, OF 20, AV. REGNAULT, 78590 NOISY LE ROI, FRANCE.

Inventors :

1. BERNARD CASTAGNER.
2. CLAUDE WAITZENEGGER.

Application for Patent No. 277/Del/90 filed on 22-03-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

11 Claims

Apparatus for driving anchors in the ground by gas pressure, the apparatus comprising a frame (43) maintained stationary relative to the ground, a firing, combustion and launching (3, 12, 16, 18) device for combustion of a pyrotechnic composition (17), said firing device (3, 12, 16, 18) having means for holding and launching an anchor (9) and an acoustic shield (5) providing for expansion of combustion gases, characterised by said gas expansion acoustic shield (5) being mounted slidably on a recoil ramp (27, 33) enabling movement of said acoustic shield (5) upwardly against gravity along the length of said recoil ramp (27, 33) thereby obtaining a balancing of the impulse transmitted to the anchor (9).

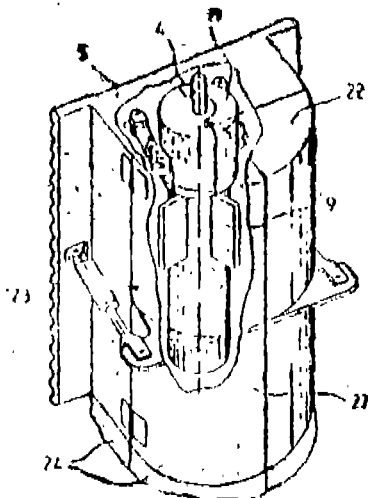


FIG 4

(Compl. Specn. 18 pages;

Drawngs. 5 sheets.)

Ind. Cl. : 206E

180053

Int. Cl. : H04B 1/00.

A COMMUNICATION SYSTEM.

Applicant : BRITISH TECHNOLOGY GROUP LIMITED, A BRITISH COMPANY, OF 101 NEWINGTON CAUSEWAY, LONDON SE1 6BU, ENGLAND.

Inventor : ANDREW BATEMAN.

Application for Patent No. 278/Del/90 filed on 22-03-90.

Convention date 12-4-1989/8908236.6/GB.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

7 Claims

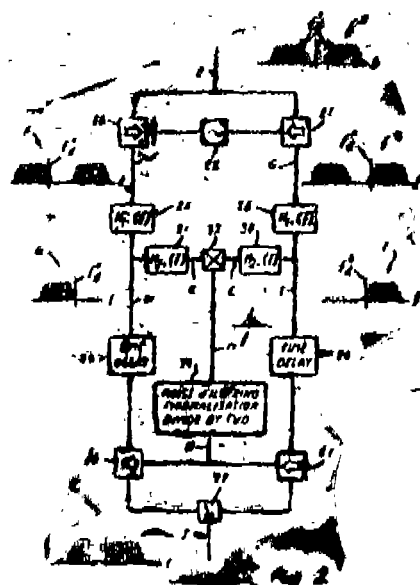
A communication system comprising transmitter processor and a receiver processor for processing a predetermined signal derived by a process such as herein before described the receiver processor comprising :

first and second receiver filters connected in the receiver at points where border regions of said signal are in operation, defined by first and second "roll-off" characteristics for the upper and lower portion respectively of an original signal from which said predetermined signal derived the first and second receiver filters having third and fourth roll-off characteristics respectively, such that the first and third and second and fourth, roll off characteristics provide respective composite roll off characteristics which are each respectively symmetrical about that frequency of the upper and lower portion which, when the receiver processor receives the predetermined signal, is derived from the said predetermined frequency.

first receiver multiplier means connected to the outputs of the first and second receiver filters whereby a control signal representative of any difference in frequency and phase of an overlap component derived from a frequency component in an overlap frequency band of said original signal which has said predetermined frequency when present of the upper and lower portions is derived.

second and third receiver multiplier means each having one input connected to receive a respective one of the signals at the said points and another input derived from the output of the first receiver multiplier means, and

summation means connected to receive the output of the second and third multiplier means whereby an output signal is provided which contains frequency components corresponding to all significant frequency components in the upper and lower portions but having a spectrum in which the notch is removed and the frequency and phase relationship between frequency components of the original signal are substantially restored.



(Compl. Specn. 21 pages;

Drawngs. 5 sheets.)

Ind. Cl. : 40 F & 125 B2

180054

Int. Cl. : G 01 N 33/04.

MILK FAT ANALYZER.

Applicant : RAJASTHAN ELECTRONICS & INSTRUMENTS LIMITED, OF 2 KANAKPURA INDUSTRIAL AREA, JAIPUR-302012, RAJASTHAN, INDIA AN INDIAN COMPANY.

Inventor : KRISHAN BIHARI AGARWAL.

Application for Patent No. 295/Del/90 filed on 23-03-90.

Complete left after Provisional Specification on 24-06-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A milk fat analyzer comprising mixing means connected to a homogenising means, a photometric means consisting of a cuvette with light source provided on one side and a detector on the opposite side thereof characterised in that said detector being connected to a microcontroller through an amplifier and a digital convertor provided for converting electrical signals into digital signal, a memory being connected to said microcontroller for retaining the signal provided by the analysis of a diluent/water, so as to process the signals of the milk under test with respect to said signals retained in the memory, a display being provided with said micro controller for displaying the analysed readings, an auto zero switch being provided with said microcontroller for providing zero valve in said display for analysing next sample's reading.

(Compl. Specn. 7 pages;

Drwng. 1 sheet.)

Ind. Cl. : 32E

180055

Int. Cl.⁴ : C08F, 120/06.

ADDITION POLYMER PARTICLES.

Applicant : ICI AUSTRALIA OPERATION PROPRIETARY LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF VICTORIA, AUSTRALIA, OF 1 NICHOLSON STREET, MELBOURNE, VICTORIA-3001, AUSTRALIA.

Inventors :

1. GEOFFREY BRUCE ANDERSON
2. DAVID SCOTT BIGNELL
3. IAIN BRUCE COOK
4. BRUCE LEARY.

Kind of Application : Complete.

Application for Patent No. 297/Del/90 filed on 23-03-90.

Convention date 23-3-1989/PJ 3391/AU.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A process for the preparation of core-sheath addition polymer particles by the polymerisation of ethylenically unsaturated monomer in aqueous medium in the presence of solvated polyoxyalkylene chains which comprise hydrophobic moieties ("amphiphile"), with at least some moieties comprising at least one ethylenic double bond such that the ethylenic double bond of those moieties comprising one such bond be in a pendant or terminal position, the polyoxyalkylene chains having a chain length of from 6-40 oxyalkylene units and the mass ratio of monomer to polyoxyalkylene chains being from 98:2 to 60:40, and polymerisation being initiated at under 40°C.

Ref. : US-3740367.

Agent : REMFRY & SAGAR.

(Compl. Specn. 26 pages;

Drwng. sheet Nil.)

4-407 GI/97

Ind Cl. : 171

180056

Int. Cl.⁴ : B 29 D 11/00.

A METHOD FOR PRODUCING A HIGH REFRACTIVE INDEX PHOTOCROMIC GLASSES.

Applicant : CORNING INCORPORATED, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, USA, OF CORNING, NEW YORK 14831, USA.

Inventor : ROGER JEROME ARAUJO.

Application for Patent No. 301/Del/90 filed on 23-03-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

6 Claims

A method for producing a transparent photochromic glass exhibiting a refractive index greater than 1.59, a density no higher than 3.1g/cm³, an Abbe number of at least 40, a weight loss no greater than 0.01 mg/cm² in the A.O. test, and which, when exposed to actinic radiation at room temperature at a thickness of about 2 mm darkens to a transmittance below 40% and fades at least 15 percentage points of transmittance within five minutes after removal from the actinic radiation, said method, comprising the steps of :

(1) preparing in any conventional manner a batch consisting of appropriate oxides or precursors to said oxides capable of producing a glass having a final base composition consisting essentially, expressed in terms of cation percent on the oxide basis, of

SiO ₂	35-47	Nb ₂ O ₅	0-5	SnO	0-16
B ₂ O ₃	24-38	TiO ₂	0-7	BaO	0-8.5
ZrO ₂	2.5-8	La ₂ O ₃	0-3	Li ₂ O	0-15
K ₂ O	2-13	ZnO	0-3	Na ₂ O	0-8
Al ₂ O ₃	0-8	CaO	0-8.5	Li ₂ O+Na ₂ O+K ₂ O	2-27

to which Ag, Cl, Br, CuO, and optionally, F are added in weight percent in excess of 100

Ag	0.15-0.4	ClO	0.005-10.05
Cl	0.3-0.65	F	0-0.6;
Br	0.2-0.65		

(2) melting said batch at a temperature between 1350°C to 1450°C;

(3) cooling and forming said melt into a glass shape of a desired configuration and annealing said shape by any conventional method;

(4) heating said glass shape between about 675°-750°C to develop silver halide crystals therein which impart photochromic behaviour to the glass; and then

(5) cooling the photochromic glass to room temperature.

Ref. No. Reference has been made to U.S. Patent Nos. 3630765, 3703388 & 3999996.

Agent : REMFRY & SAGAR.

(Compl. Specn. 23 pages;

Drwng. sheet Nil.)

Ind. Cl. : 128 F

180057

3 Claims

Int. Cl.⁴ : A 61 M 3/00 & 5/315.

SINGLE-USE HYPODERMIC SYRINGE.

Applicant : ALAIN HAMMAMI, A FRENCH CITIZEN
OF 22, RUE CAUMARTIN PARIS 93, FRANCE.

Inventor : ALAIN HAMMAMI.

Application for Patent No. 317/Del/90 filed on 27-3-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

6 Claims

A single-use hypodermic syringe comprising a barrel (1) receiving a piston (2) fitted with an adaptor (3) in the form of a hollow cylindrical body having a peripheral wall to ensure sealing-tightness in respect of the barrel, (1) a closed front (31) face, a rear (32) face provided with an orifice (33) for fitting the adaptor (3) onto the (43) tip of a nipple (4) characterised in that

the said front closed face (31) of the adaptor (3) comprises a fragile (34) wall,

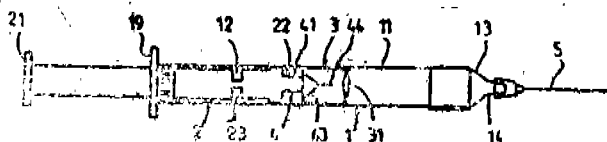
the said rear (32) face of the adaptor (3) comprises in addition to the orifice (33) at least one other aperture (35) positioned outside the field of contact of the said drive (4) nipple and of the said adaptor, (3) said adaptor (3) and the rear chamber (12) of the barrel (1) being in communication with each other by the said aperture, (35)

the said drive-nipple (4) carries on its tip (43) receiving the said adaptor (3) a spike (44) intended to pierce the said fragile (34) wall under action of the piston movement

Ref. No. Ref. to US P. No. 4687467.

Agent : REMFRY & SAGAR.

FIG. 1



(Compl. Specn. 14 pages;

Drawngs. 2 sheets.)

Ind. Cl. : 32 E

180058

Int. Cl.⁴ : C 08 L 23/00.

PROCESS FOR PREPARING A DYNAMICALLY VULCANIZED COMPOSITION.

Applicant : ADVANCED ELASTOMER SYSTEMS, L.P.,
A LIMITED PARTNERSHIP ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, USA, LOCATED AT 540 MARYVILLE CENTER DRIVE, P.O. BOX 66735, ST. LOUIS, MISSOURI 63166-6735, USA.

Inventors :—

1. DONALD ROSS HAZELTON
2. ROBERT CHESTER PUYDAK.

Kind of Application : Complete.

Application for Patent No. 320/Del/90 filed on 28-3-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110 005.

A process for preparing a dynamically vulcanized composition comprising a thermoplastic resin and a fully vulcanized rubber, said process characterised in that it comprises the steps of :

blending (i) 20—90 wt %, based on the total weight of the composition, of a thermoplastic resin comprising a plastomeric copolymer selected from the group consisting of ethylene-hexene copolymer, ethylene-butene copolymer and mixtures thereof, wherein the hexene or butene content of the respective copolymers is at least 20 wt%, and the plastomeric copolymer has a density of less than 0.90 and a degree of crystallinity (measured as heat of fusion) of 5 to 85 J/g, with (ii) 80—10 wt %, based on the total weight of the composition, of a rubber selected from the group consisting of butyl rubber, halobutyl rubber, ethylene-propylene-diene rubber (EPDM), polyisoprene, polychloroprene, styrene-butadiene rubber, nitrile rubber, chlorosulfonated polyethylene, and mixtures thereof, at a temperature above the melting point of resin (i) to produce a blend;

adding to the blend a non-peroxide cure system such as herein before described for vulcanizing only said rubber (ii) and vulcanizing said rubber under dynamic vulcanization conditions such as herein before described for a time sufficient to fully vulcanize the rubber, thereby producing a dynamically vulcanized composition.

Ref. No. Nil.

Agent : REMFRY & SAGAR.

(Compl. Specn. 30 pages;

Drawg. Nil.)

Ind. Cl. : 40 B

180059

Int. Cl.⁴ : B01J, 38/18.

A PROCESS FOR THE MANUFACTURE OF ALCOHOL AND/OR ALDEHYDE.

Applicant : EXXON CHEMICAL PATENTS, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA of 200 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932, USA.

Inventors :

1. NICOLAAS ANTHONY DE MUNCK,
2. MATTHEUS DERK OLIJVE.

Kind of Application : Complete.

Application for Patent No. 336/Del/90 filed on 4-4-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

3 Claims

A process for the manufacture of alcohol and/or aldehyde which comprises :

- (a) subjecting an olefin feed stream such as herein described to a conventional hydro formulation in the presence of any conventional cobalt catalyst;
- (b) hydrogenating the oxoproducts of step (a) to obtain a reaction product comprising an oil/water mixture and a mixture of alcohols and aldehydes;
- (c) upgrading the heavy oxofraction in said oil/water mixture in any known manner to contain an upgraded heavy oxofraction; and

- (d) converting the dissolved cobalt catalyst ub said oil/ water mixture to corresponding carbonyls in any known manner and absorbing said carbonyls by said upgraded heavy oxofraction, and if desired recycling said absorbed product to oxonation reaction.

Reference: A Ref. has been made to US Patent No. 2751403, 3793437.
Germany Patent No. 1272911.
US Patent No. 3941848.
British 1383658, 1390898.
Japan 73/17594.
Germane 2451473.
US 4255279, 44041191.
EP 183545.

Agent: REMFRY & SAGAR.

(Compl. Specn. 21 pages;

Drwns. 2 sheets.)

Ind. Cl. : 27 JL 180060
Int. Cl. : E04C 1/00.

CAGE STRUCTURE FOR USE IN MAKING AN ON SITE STRUCTURAL BLOCK.

Applicant: HESCO BASTION LTD., A BRITISH COMPANY OF UNIT 37, KNOWSTHORPE GATE, CROSS GREEN INDUSTRIAL ESTATE, LEEDS LS9 0NP ENGLAND.

Inventor: JAMES WILLIAM HESSELDEN, ENGLAND.

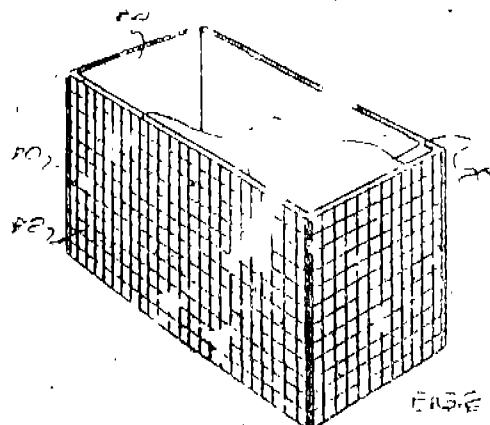
Application for Patent No. 3-1/Del/90 filed on 5-4-1990.

Convention date 7-4-1989/8907832.3/GB
7-10-1989/8922639.3/GB
20-1-1990/9001376.4/GB
24-10-1989/8923934.7/GB

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

11. Claims

A cage structure for use in making an on site structural block where the structure will be filled with sand, soil or other building material (26), said structure (20/22) being made up of interconnected open mesh work panels (30 to 38) provide side and end walls (30 to 38) and an open top through which the cage structure (22) is fillable, characterised in that the open mesh work panels (30 to 38) are connected together and said panels (30 to 38) forming the cage side and end walls are pivotally interconnected (46) edge to edge and relatively foldable to lie face to face in a flattened, form for transportation to site and relatively unfolded to bring the cage (22) to the erected condition for filling without the requirement for any further interconnection of the side and end walls (30 to 38) on site.



(Compl. Specn. 28 pages;

Drwns. 5 sheets.)

Ind. Cl. : 13A

180061

Int. Cl. : B65D 27/00.

A FLEXIBLE INTERMEDIATE BULK CONTAINER.

Applicant: NORSE HYDRO A.S., A NORWEGIAN COMPANY, OF BYGDOY ALLE 2, 0257 OSLO 2, NORWAY.

Inventors:

1. ANDERS JUEL, NORWAY, OLAF STRAND.
2. BIARNE OHDAL, NORWAY, ROGER LYSFJORD.

Application for Patent No. 231/Del/90 filed on 9-3-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

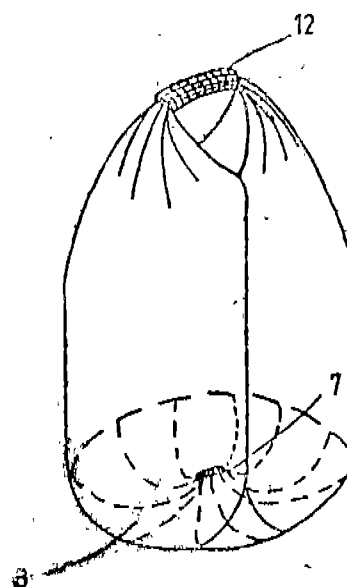
A flexible intermediate bulk container for transportation and storage of bulk material, said container comprising:

a hose shaped blank of woven or sheet material, said blank having a longitudinal axis, (8) a top (1) and a bottom (2);

said blank having at least two longitudinal folds characterised in that said folds extend parallel to said axis and defining at least three folded blank sections each including two layers of said woven material, with said at least three folded blank sections being superimposed, thus defining at least six superimposed layers of said woven material;

at least one of said top and bottom of said blank having a seam (7) extending transverse to said axis (8) and formed by joining said at least six superimposed layers of woven material, said seam having a length in a direction transverse to said axis equal to less than one-quarter of the circumference of said hose shaped blank and therefore of said container; and

said top (1) of said blank having therein an opening for filling bulk material into said container and having at least one lifting loop (13) formed by at least one integral extension of the entire circumference of said blank of woven material.



(Compl. Specn. 17 pages;

Drwns. 4 sheets.)

Ind. Cl. : 206E

180062

Int. Cl. : G 06 F 3/00.

IMPROVED DOT MATRIX PRINT HEAD ASSEMBLY OF PRINTER FOR PERSONAL COMPUTERS.

Inventor : GOVINDAN MUNIYANDI.

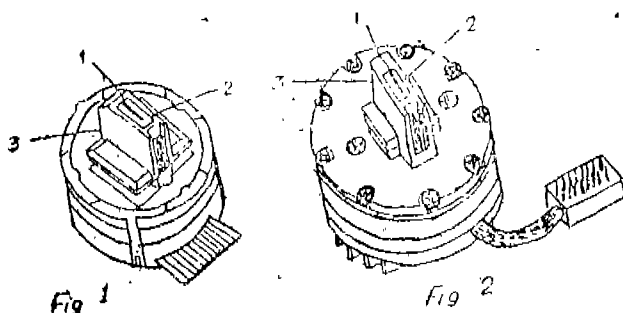
Application for Patent No. 232/Del/90 filed on 12-3-1990.

Complete left after provisional filed on 12-6-91.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

Improved dot matrix print head assembly of printer for personal computers comprising a guide being fitted in the print head to guide print wires characterized in that said guide has a pair of plain blocks (4, 4) separated by a pair of distant pieces (5, 6) and supported pieces (7, 8), said plain blocks being made of tungsten carbide/cemented carbide, each having a wedge shaped cross section and placed with the wedge facts opposite to each other, said distant pieces and supporting pieces being made of stainless steel or carbon steel, the print wire of the printer located in the gap between the said two blocks



(Prov. Specn. 6 pages;
(Compl. Specn. 9 pages;

Drawngs. 3 sheets.)
Drawngs. 3 sheets.)

Ind. Cl. : 128 G

180063

Int. Cl.⁴ : A 61M 1/00.

CARTRIDGE FOR A PERISTALTIC PUMP AND PERISTALTIC PUMP FITTED WITH SAID CARTRIDGE.

Applicant : EDOUARD MALBEC, A FRENCH CITIZEN OF LOGIC DE CHALONNE, 16160, LE GOND PONTOUVRE, FRANCE.

Inventor : EDOUARD MALBEC.

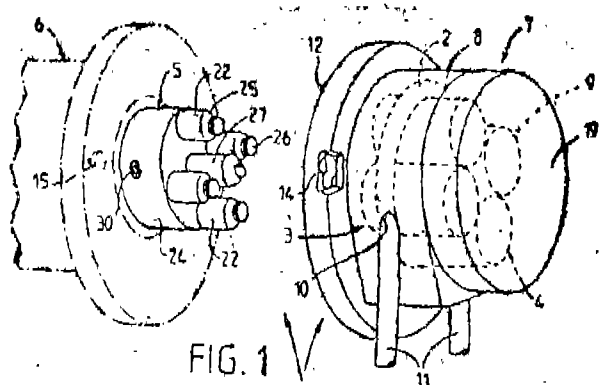
Application for Patent No. 236/Del/90 filed on 12-03-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

6 Claims

Cartridge for a peristaltic pump comprising a housing (8) having cylindrical raceways (16, 17) in the vicinity of the ends of the housing (8), bevel gears (9) for rolling engagement with said cylindrical raceways (16, 17) a flexible tube (2) located between said bevel gears (9) and a cylindrical surface (18) of said housing (8), said cylindrical surface (18) located axially between said raceways (16, 17) whereby said bevel gear (9) on rolling crush said flexible tube (2) characterised in that said bevel gears (9) are tubular and are freely mounted inside the housing (8) to be displaceable within the concavity of said flexible tube (2) between a position when said flexible tube (2) is relaxed to a position when said flexible tube (2) is crushed by said bevel gears (9), said housing (8) having at least on one side thereof a central opening (13) with a diameter large enough to enable insertion therethrough

means (6) for driving said bevel gears (9) either directly from a rotary disc (24) provided with planet gears (22) capable of engaging into the tubular bevel gears (9) or from a shaft (6) internally engaged between said tubular bevel gears (9).



(Compl. Specn. 13 pages;

Drawngs. 3 sheets.)

Int. Cl.⁴ : B 01D 39/16

180064

Ind. Cl. : 40 H (IV (1))

PROCESS FOR THE PREPARATION OF CHLORINE RESISTANT POLYESTER SEMI-PERMEABLE MEMBRANES.

Applicant : ALLIED-SIGNAL INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF COLUMBIA ROAD AND PARK AVENUE, MORRIS TOWNSHIP, MORRIS COUNTY NEW JERSEY 07962-2245 UNITED STATES OF AMERICA.

Inventor : ADAIKALASAMY XAVIER SWAMIKANNU

Application for Patent No. 245/Del/90 filed on 14-3-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005;

10 Claims

A process for the preparation of a chloring-resistant polyester semipermeable membrane which comprises contacts a porous support backing material of the kind such as herein described solution such as herein comprising a blend of two polymers which will form a polyester by an acid catalyzed esterification reaction under conventional curing conditions, said blend comprising a polymeric hydroxyalkyl acrylate and a polymeric monocarboxylic acid or a polymeric dicarboxylic acid-recovering the resultant solution-coated porous support composite curing said composite, curing said composite at conventional curing conditions to form about ambient to about 60°C, a pressure in the range of from atmospheric to about 1034 KPa (gauge), and a time in the range of from 2 seconds to 5 minutes.

(Compl. Specn. 34 Pages

Drawing Sheets—Nil)

Ind. Cl. : 70B

180065

Int. Cl.⁴ : H01M 4/42

A PRIMARY OR SECONDARY AUKALINE MANGANESE-DIOXIDE CELL.

Applicant : BATTERY TECHNOLOGIES INC., A COMPANY ORGANISED UNDER THE LAWS OF THE PROVINCE OF ONTARIO, CANADA OF 2480 DUNWIN DRIVE, MISSISSAUGA, ONTARIO, CANADA L5L 1J9.

Inventors : KARL VICTOR KORDSCH, KLAUS TOMANTSCHGER, YATENDRA SHARMA.

Application form Patent No. 249/Del/90 filed on 15-3-1990.

Convention date 06-11-89 No. 2002348-1 Country-Canada.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A primary or secondary alkaline manganese dioxide cell comprising a container having a cathode and an anode within said cathode and said anode being spaced apart from each other, said cathode constituting substantially of manganese dioxide and said anode being constituted by an admixture of amalgamated zinc particles, zinc oxide and finely divided metallic copper having a large surface area to form an electrically conductive, low resistance structure, an aqueous alkaline electrolyte, a separator having at least one ion-permeable layer located between said cathode and said anode for electrically insulating them from each other, said separator being in contact with an at least partially wettable by said electrolyte and a current collector in intimate physical contact with said anode for ensuring uniform current distribution.

(Complete Specification 31 Pages Drawing Sheet Nil).

Ind. Cl. : 201C

180066

Int. Cl. : C 02F 5/10.

COMPOSITIONS USED FOR TREATING WATER OR AQUEOUS SYSTEM.

Applicant : CIBA-GEIGY AG., A SWISS CORPORATION, OF KLYBECKSTRASSE 141, 4002 BASLE, SWITZERLAND.

Inventors : SURESH PATEL.

Application for Patent No. 254/Del/90 filed on 16-3-1990.

Convention date 21-3-198 9/8906413.3/UK.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A composition used for treating water or an aqueous system to prevent the deposition of scale-forming impurities in the water which comprises hydrolysed polymaleic anhydride, and a hydrolysed copolymer a maleic anhydride with at least one monoethylenically unsaturated monomer, the weight ratio of hydrolysed polymaleic anhydride to hydrolysed copolymer being in the range of 10 : 90 to 90 : 10.

(Complete Specification 13 Pages Drawing 6 Sheets).

Ind. Cl. : 98E

180067

Int. Cl. : F28 F13/00.

A HEAT EXCHANGER.

Applicant : BALCKE-DURR AKTIENGESELLSCHAFT, A GERMAN COMPANY, OF 4030 RATINGEN 1, HOMBERGER STRASSE 2, WEST GERMANY.

Inventors : HERBERT KRIPS MIROSLAN PODHORSKY.

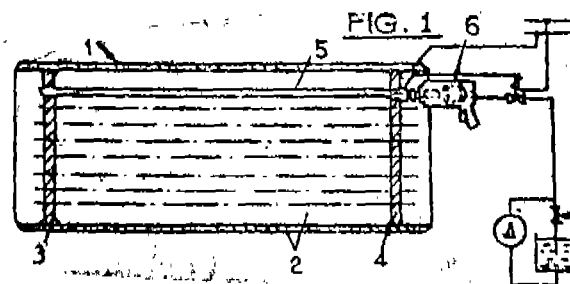
Application for Patent No. 256/Del/90 filed on 16-3-1990. Ante dated to 26-5-1987.

Divisional to Patent No. 266/Del/87 filed on 26-5-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Heat exchanger with a plurality of tubes (5) extending between two tube sheets (3, 4), with said tubes (5) being secured to said tube sheets (3, 4) in a pressure-tight manner, with each of said tubes (5) being inserted, with play, into bores in said tube sheets (3, 4), with at least one end of each of said tubes (5) being hydraulically expanded, by means of a pressure medium, with said one end pressed against the associated tube sheet (3) and being secured, in particular welded, in said end face region thereof, to the associated tube sheet (3), and with a prescribed prestress being produced in each of said tubes (5) secured between said tube sheets (3, 4) to take into account subsequent operating conditions, characterised in that the length of each of said tubes (5) secured in cold state in the associated bores of said one tube sheet (3) being extended beyond the associated bores of said other tube sheet (4) by heating each of said tubes (5) in conformity with the prescribed prestress, that each of said extended tubes (5) being hydraulically expanded in said heat-up state within the range of that portion of said other end of said tubes (5) that is disposed in one of said bores of the associated tube sheet (4) and that each of said extended tubes (5) being weld connected by said portion projecting beyond said bores of said tube sheet (4) to said tube sheet (4).



(Complete Specification 21 Pages Drawing 4 Sheets)

Ind. Cl. : 98E

180068

Int. Cl. : F28F 13/00.

A HEAT EXCHANGER.

Applicant : BALCKE-DURR AKTIENGESELLSCHAFT, A GERMAN COMPANY, OF 4030 RATINGEN 1, HOMBERGER STRASSE-2, WEST GERMANY.

Inventors : HERBERT KRIPS, MIROSLAN PODHORSKY.

Application for Patent No. 257/Del/90 filed on 19-3-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

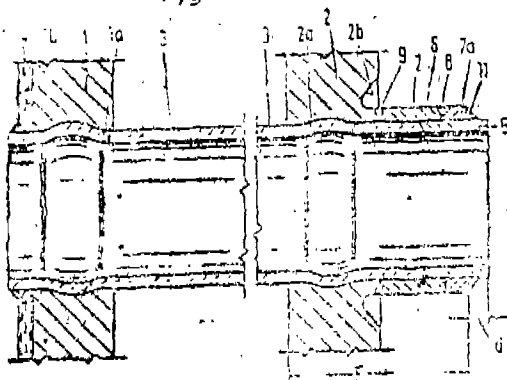
Heat exchanger comprising two tube sheets (1, 2), a plurality of tubes (3) extending between said two tube sheets (1, 2), and being secured at one end each thereof to said tube sheets (1, 2) said tubes (3) and/or tube sheets (1, 2) being made of annealable steel for stress-relieving purposes.

characterised in that

a tubular piece (5) extends from the other end of each of said tubes (3) said tubular piece (5) being of a non thermal, weldable material, each of said tubes (3) being connected onto a sleeve (7) by means of said weldable tubular

piece, a hole (2a) in said tube sheet (2), said sleeve extends outwardly along the length of said hole, and at least the free end (7a) of each of said sleeves (7) is also of a non-thermal weldable material.

Fig 2



(Complete Specification 15 Pages;

Drawing Sheet 1)

Ind. Cl. : 179E

180069

Int. Cl.⁴ : 3/00, 3/02.

CAP FOR A CONTAINER.

Applicant : LACVAC PTY., LTD., A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF VICTORIA, OF 20 MORIA AVENUE, FERNTREE GULLY, VICTORIA, AUSTRALIA.

Inventors : JOSEPH REDVERS BULLER PARSONS, JOANNA MARY PARSONS.

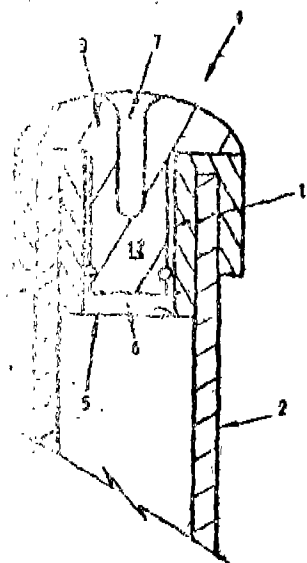
Application for Patent No. 264/Del/90 filed on 19-3-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

Claims-7

A cap adapted for co-operation with a container (2) to provide a resealable enclosed space capable of evacuation to a predetermined reduced pressure, said container (2) being adapted for the handling of body fluid samples, said cap (1) consisting of two parts (3, 4), being an upper portion (3) and a lower portion (4) which, when fitted together in a closed position are together adapted to form a reasonable gas-proof seal for sealing an open (11) end of said container (2) said seal formed in said closed position being broken in an open position, said upper portion (3) forming a sealing plug for fitment with said lower portion (4), said upper portion (3) being cannula-pierceable and self-resealing, said lower portion (4) being adapted for fitment to said container (2), in a sealing manner, an being adapted to accommodate at least the plug portion of said upper portion to form said reusable seal between said upper and lower portion (3, 4) when said cap (1) is in said closed position, said lower portion (4) having an access port for providing either piercing or non-piercing access to said enclosed space when said cap (1) is in said open position, said lower portion (4) further having an integral barrier means (5) disposed across said access port to substantially prevent container contents contacting the upper portion (3) when the cap (1) is in the closed position, said barrier means (5) being penetratable to allow said access therethrough when the cap (1) is in said open position and adapted to reform to prevent escape of liquid past the barrier (5).

Fig 1



(Complete Specification 11 Pages

Drawing Sheet 3)

Ind. Cl. : 140 A4

180070

Int. Cl.³ : C107 129/68.

A LUBRICATING COMPOSITION.

Applicant : THE LUBRIZON CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 29400 LEKELAND BOULEVARD, WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

Inventors : RICHARD MICHAEL LANGE.

Application for Patent No. 269/Del/90 filed on 20-3-1990.

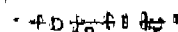
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

Claims - 5

A lubricating composition comprising;

an oil of lubricating viscosity, and from 0.01% to 10% by weight of an additive consisting of a polyester of the formula II

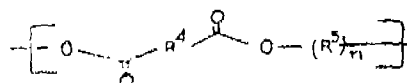
II



wherein X and Y are terminal groups of the polymer and are, independently, hydrogen, alkyl, aryl, aralkyl, hydroxy, alkoxy, carboalkoxy, aryloxy, dialkylamino, diarylamino, alkylthio or arylthio; p is 3 to 30; r is 0 to 30 and the sum of p+r ranges from 3 to 40; D is represented by the formula IIA.



wherein R is alkyl, aryl or aralkyl and R¹ and R² are hydrocarbyl or a bond to other repeating units; and E has the formula IIB



wherein R¹ and R² are the same or different and are hydrocarbyl which includes branched hydrocarbyl groups containing reactive functionalities thereof, and n is 0 or 1.

(Complete Specification 40 Pages;

Drawing Sheets 3)

Ind. Cl. : 98C

180071

Int. Cl⁴: F28F 13/00 13/08**"AN APPARATUS FOR MANUFACTURING A HEAT EXCHANGER"**

Applicant: BALCKE-DURR Aktiengesellschaft, a German Company, of 4030 Ratingen 1, Homberger Strabe 2, West Germany.

Inventors: HERBERT KRIPS, MIROSLAN PODHORSKY.

Application for Patent No. 266/DEL/87 filed on 26-3-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents, Rules, 1972), Patent Office Branch, New Delhi-110005.

(Claims 6)

An apparatus for manufacturing a heat exchanger with straight tubes (5) being secured between two end plates (3, 4) in a pressure-tight manner by hydraulically expanding said tubes (5), with each of said tubes having two oppositely disposed ends and associated end faces, and with each of said (3, 4) end plates having bores for receiving respective ones of said tubes, said apparatus comprising;

an expansion (6) means to be introduced into said tube (5) that is to be expanded, said expansion (6) means having a cylindrical (62) body on which are disposed at least two spaced-apart sealing (10) rings which together with that portion of said tube (5) that is to be hydraulically expanded, form an annular (17) chamber;

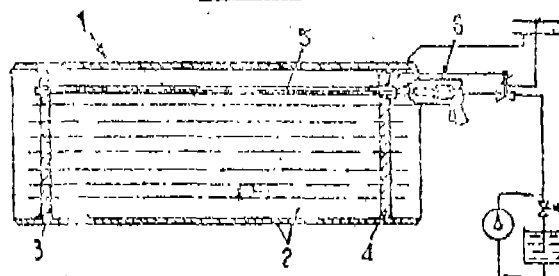
a conventional pressure applying means for applying pressure to said tubes connected to said expansion (6) means;

a pressure (15) line connecting said pressure (16) applying means to said annular chamber (17) to fill said annular (17) chamber with pressure medium to effect said hydraulic expansion;

a valve (14) disposed in said pressure (15) line for controlling the flow of pressure medium to said annular (17) chamber; and

a switch (13) located on said expansion (6) means for controlling the opening and closing of said (14) valve, with said switch being activated by one of said end faces of said tube, into which said expansion means is introduced as a result of thermal expansion of said tube (5);

FIG. 1



(Comp. Specn. 21 Pages)

Drawing 4 Sheets)

Ind. Cl. : 69A

180072

Int. Cl⁴: H01 H83/00**"MEDIUM OR HIGH TENSION VOLTAGE BREAKER"**

Applicant: GEC ALSTHOM S.A, a French Company of 38 avenue Kleber 75116 Paris, France.

Inventors: JEAN MAINEULT, RAYMOND PLUVEAU.

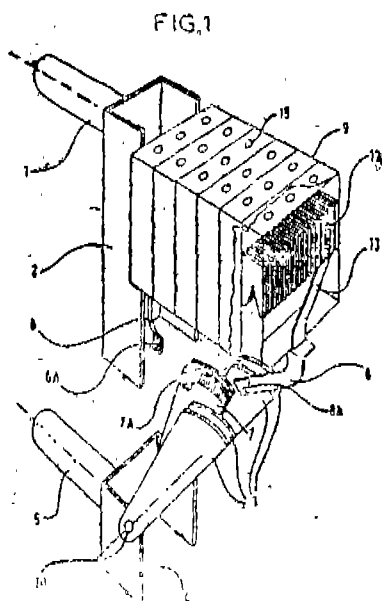
Application for Patent No. 17/DEL/90 filed on 4-1-1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

(Claims-3)

A medium or high tension voltage breaker comprising a shell filled with a dielectric gas under pressure and containing a fixed main contact, a moving main contact, a fixed arcing contact and a moving arcing contact between which an arc is established after arcing contacts separation, said breaker comprising a plurality of a metallic plates for splitting up the arc into a large number of elementary arcs, said metallic plates provided parallel to each other in a plurality of adjacent compartments, said plates being parallel to a line passing through the arcing contacts, said compartments being open over the arcing zone, a partition between two adjacent compartments being equipped with a metal electrode having a portion fitted astride said partition and having two wings extending in respective ones of said adjacent compartments, said wings

being plane and having their plane perpendicular to the plane of said plates in said compartments in which they are contained.



(Comp. Specn. 11 Pages Drawing 9 Sheets)

Ind. Cl. : 49F

180073

Int. Cl. : G 05 D 23/00

A HEATING APPARATUS REGULATING A COOKING APPLIANCE.

Applicant: COMPAGNIE EUROPEENNE POUR L'EQUIPEMENT MENAGERCEPEM, of 18, rue du 11 Octobre, 45140 St. Jean-de-la-Ruelle,

Inventors: DIDIER GOUARDO, SERGE BOYER & PIERRE PIROT, ALL CITIZENS OF FR.

Application for Patent No. 26/Del/90 filed on 08-01-90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972, Patent Office Branch, New Delhi-110005.

(Claims 3)

A heating apparatus for regulating a cooking appliance comprising a heating element (4), an electrical supply (12) connected to said heating element for supplying power to said heating element, a temperature sensor (1) connected to said heating element and delivering a measured temperature (QC) to a monitor device, said monitor device being connected to said electrical supply for controlling said electrical supply and also connected to said temperature sensor for providing a predetermined servocontrol curve (5) representative of a derivative

of temperature with respect to time $[do/dt]$ as a function of temperature (Q), wherein said monitor device comprises first calculating means connected to said temperature sensor for receiving said measured temperature (QC) calculating the derivative of said measured temperature with respect to the time $[doc/dt]$ and for determining a measured point which has, as abscissa, said measured temperature (QC) and as ordinate, the calculated derivative of said measured temperature $[doc/dt]$ a comparing means connected to said first calculating means for comparing said measured point with said predetermined servocontrol curve, and a second calculating means connected to said comparing means for calculating a modified power compatible with said servocontrol curve so that the measured point is closer to said servocontrol curve, said second calculating means applying said modified power to said electrical supply.

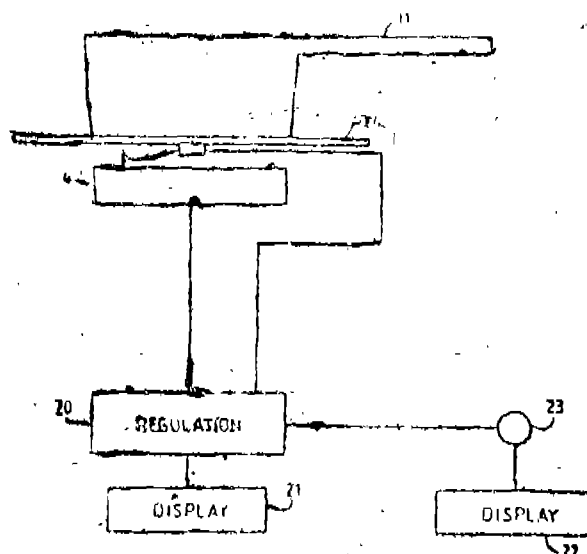


Fig. 1

(Comp. Specn. 14 Pages Drawings 8 Sheets.)

Ind. Cl. : 170 D

180074

Int. Cl. : C 11 D 3/065

"A SYNERGISTIC LAUNDRY DETERGENT BAR"

Applicant: PROCTER & GAMBLE COMPANY, One Procter & Gamble Plaza, Cincinnati, State of Ohio, United States of America.

Inventors: JAMES UY KAW, LAURIE BETH STEURL

Application for Patent No. 82/DEL/90 filed on 31-1-1990:

from the group consisting of Ti, V, Zr, Mo, and their carbides and, borides and mixtures thereof, said highly conductive component comprising (i) a first highly conductive component region being composed of first discontinuous phase having a thickness or width of no more than 5 micrometers and a first matrix surrounding the first discontinuous phase, and (ii) a second highly conductive component region being composed of a second discontinuous phase having a thickness or width of at least 5 micrometers and a second matrix surrounding the second discontinuous phase, wherein said first discontinuous phase in said first highly conductive component region is finely and uniformly dispersed in said first matrix at intervals of no more than 5 micrometers and wherein the amount of the highly conductive component region based on the total highly conductive component is within the range of from 10% to 60% by weight, said arc-proof component has an average grain size of from 0.1 to 5 micrometers and wherein a large portion of the arc-proof component is surrounded by the first highly conductive component, said method comprising the steps of:

Compacting in any known manner said arc-proof material powder into a green compact;

sintering in any known manner said compact to obtain a skeleton of the arc-proof material;

infiltrating in any known manner the voids of said skeleton with said highly conductive material; and

cooling in any known manner the infiltrated material to form the contact forming material.

(Complete Specification 38 Pages; Drawings Sheet-1)

Ind. Cl. : 64 B 1 LVIII (4) 180080

Int. Cl. : HO 2 G 1/00, 1/14, 15/00

A CABLE JOINT ASSEMBLY.

Applicant & Inventor : DR. VIDYARTHI NANDURI 16/8, EAST PATEL NAGAR, NEW DELHI - 110008, AN INDIAN NATIONAL

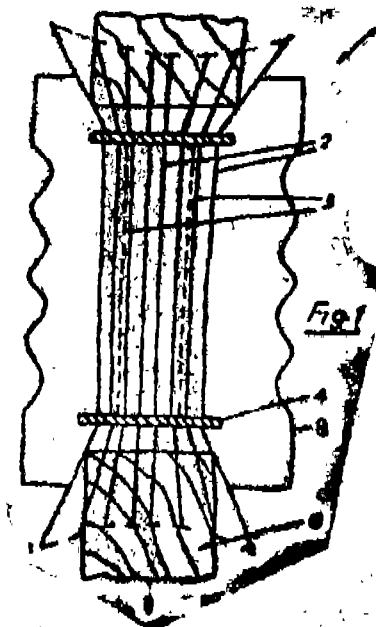
Application for Patent No. 230/Del/90 filed on 9-3-1990.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A cable joint assembly comprising a plurality of supports (3) disposed in an insulated outer housing for supporting conductors (2) being provided in a parallel and spaced relationship to each

other, characterised in that consisting a shorting member being provided at either ends of said conductors (2), a housing (5) for example a slotted tubular housing at least with one end of said terminator (4) for receiving the cable, said housing (5) made of any known conducting material.



(Complete Specification 12 Pages; Drawing 3 Sheets).

Ind. Cl. : 189 LVI (9)

180081

Int. Cl. 4 : B 26 B 21/00

SHAVING APPARATUS.

Applicant : THE GILLETTE COMPANY, UNITED STATES OF AMERICA, PRUDENTIAL TOWER BUILDING BOSTON, STATE OF MASSACHUSETTS, U.S.A.

Inventor : JOHN CHARLES TERRY FRANK EDWARD BROWN STEPHEN LEONARD RAWLE.

Application for Patent No. 343/DEL/90 filed on 5-4-1990 Conventional Date : 13-4-1989.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 6

A shaving apparatus comprising a razor handle (72) a plurality of exchangeable blade cartridges (C₁—C₅) and a dispensing container housing a plurality of the cartridges (C₁—C₅), the handle (72) being provided with a pair of arms (78, 80) for engaging and disengaging cartridges (C₁—C₅) with and from the handle (72), said container housing a plurality of cartridges (C₁—C₅) side-by-side

and provided with a guide means extending longitudinally of the container, transverse to the lengths of the cartridges (C_1-C_5), said guide means extending from one entry end (12) to the opposite, exit end (17) of the container, said guide means having an opening (12, 13, 14, 16, 17) throughout the length of a top wall (3) of the container for guiding and locating the razor handle (72), and guide slots (4, 6) in which opposite ends of the cartridges (C_1-C_5) are located, said razor handle (72) being engageable in the container at the entry end (12) thereof and moveable along the length of the container, along said top wall (3) opening (12, 13, 14, 16, 17) said guide means being configured to allow said handle (72) to be moved clear of the cartridges (C_1-C_5) and to direct the handle arms (78, 80) into engagement with the last cartridge (C_1) nearest the exit end (17), said guide means in a portion thereof have side walls (14) of reduced width to cooperate with the said arms (78, 80) of the handle (72) reaches said last cartridge (C_1) whereat the side walls are wide to enable said handle arms (78, 80) to return to their operative positions to engage the last cartridge (C_1), said guide slots (4-6) and top wall (3) converging towards each other towards the exit end (17) of said dispensing container.

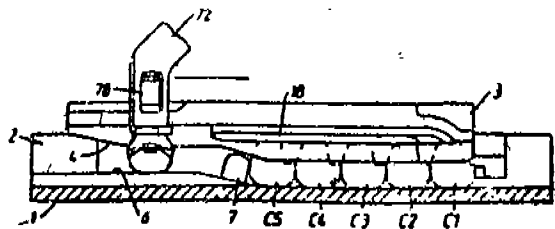


Fig. 2

(Complete Specification 10 Pages — Drawing Sheets—3)

Ind. Cl. : 127 I 129 CFP 180082

Int. Cl. : F 16 B 7/00, 9/00

TOOL FOR HANDLING A COLLET

Applicants : KENNAMETAL INC., a corporation organised under the laws of the State of Pennsylvania, United States of America, of P.O. Box 231, Latrobe, Pennsylvania 15650, United States of America,

Inventors : TED RICHARD MASSA AND DAVID RICHARD SIDDLE, AMERICA.

Application for Patent No. 348/DEL/90 filed on 6-4-90.

Appropriate office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A tool for handling a collet of the type having a forward end portion²⁰ for being confined within a retainer²⁴ and a tapered rear end portion²² where the outside diameter becomes progressively smaller toward the rear end²² of the collet characterised in that ;

(a) an elongated sleeve⁴⁰ having a collet receiving end section⁴² having a collet receiving area⁴⁴ with a tapered inlet⁴⁶ for being extended over the tapered rear end portion²² of the collet such that as the sleeve⁴⁰ is pushed over the rear end portion²² of the collet toward the front end portion²⁰ the collet compresses radially to such a degree that the collet is lodged within the receiving end⁴² of the sleeve⁴⁰ and the collet is freely removable from the retainer²⁴ ;

(b) a collet ejector⁵⁰ reciprocally mounted in the sleeve⁴⁰ ;

(c) said collet ejector⁵⁰ having an elongated plunger⁵⁶ having a collet engaging end⁴⁶ disposed within the sleeve⁴⁰ and an actuator end⁴⁸ that extends from the end of the sleeve⁴⁰ opposite the collet receiving end⁴² ;

(d) said plunger⁵⁶ being movably mounted within said sleeve⁴⁰ for movement between a retracted position and an extended position so that in moving from said retracted position to said extended position the plunger⁵⁶ is operative to engage and dislodge the collet from said receiving end⁴² of a sleeve⁴⁰ and said sleeve⁴⁰ having a collet receiving end section⁴² with an inner diameter which is less than the largest outer diameter along the tapered rear end portion²² of the collet¹².

Ref : NIL

Agent : REMFRY AND SAGAR

(Complete Specification 15 Pages : Drawing—2 Sheet)

Ind. Cl. : 155 F (I) 180083

Int. Cl. 4 : CO 9 K 21/02

"FLAME RETARDANT POLYMER COMPOSITION."

Applicant : B P. CHEMICALS LIMITED,
a British Company of Belgrave
House, 76 Buckingham Palace
Road, London SW1W 0SU,
England

Inventor : SHEARER DAVIDSON, KENNETH
WILKINSON,

Convention No. 8909070.8 Date 21-04-89,
U. K.

Application for Patent No. 349/DEL/90 filed
on 06-04-90.

Appropriate office for Opposition Proceed-
ings (Rule 4, Patents Rules, 1972) Patent Office
Branch, New Delhi-110005.

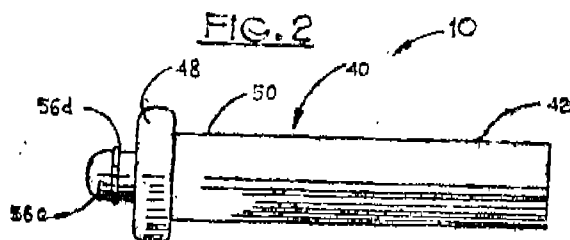
12 Claims

A flame retardant polymer composition, which
is substantially free of halogen compounds and of
organometallic salts comprising ;

(A) an organic polymer such as herein de-
scribed at least 40% by weight of which is a copoly-
mer of ethylene with one or more comonomers
selected from the group consisting of C₁ to C₆
alkyl methacrylates, acrylic acid, methacrylic
acid and vinyl acetate.

(B) a silicon fluid or gum of the kind
such as herein described.

(C) an inorganic filler which is a compound
of a metal of group IIA of the periodic Table of
Elements, but which is neither a hydroxide nor a
substantially hydrated compound and wherein the
amount of silicon fluid or gum is from 0.5 to 100
parts by weight per 100 parts by weight of the or-
ganic polymer and the amount of the inorganic filler
is from 10 to 250 parts by weight per 100 parts by
weight of the organic polymer.



(Complete Specification 16 Pages ; Drawing
Cil Sheets)

Ind. Cl. : 69 A

180084

Int. Cl. : H 01 H 83/00

"A MEDIUM VOLTAGE CIRCUIT
BREAKER".

Applicant : GEC ALSTHOM S. A., A
FRENCH COMPANY, OF 38
AVENUE KLEBER, 75116
PARIS FRANCE.

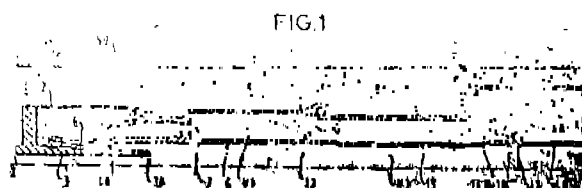
Inventor : EDMOND THURIES, MICHEL
PERRET, DENIS DUFOURNET,

Application for Patent No. 361/Del/90 filed
on 11-4-1990.

Appropriate Office for Opposition Proceed-
ings. (Rule 4 Patent Rules, 1972) Patent Office
Branch, New Delhi-110005.

14 Claims

A medium voltage circuit breaker compris-
ing a cylindrical insulating casing (1) filled with
a dielectric blast gas under pressure, a main fixed
contact (2) coaxially surrounding a fixed arcing con-
tact (1), and a moving equipment comprising a
blast cylinder having an annular section and defi-
ned by a first (5) outer and a second (4) inner
tubes, said tubes (4, 5) being coaxial and maintai-
ned together by a transverse ring provided with
axial holes (7) said first tube (5) carrying a con-
tact (5-A) cooperating with said fixed main con-
tact (2) for the passage of permanent current, said
first tube (5) further carrying a blast nozzle (6),
a fixed piston (1) of annular section cooperating
with said blast cylinder (4, 5) said first piston be-
ing carried by a third tube (8A) extended by a first
cylindrical portion (8B) having a diameter larger
than the diameter of said first tube (5), said second
tube (4) carrying at one end an arcing contact (4A)
cooperating with said fixed arcing contact (10) and
being extended at the other end by a second
cylindrical portion (4B), said first 8 (B) and second
(4B) cylindrical portions defining a second annu-
lar section cylinder cooperating with a drive pis-
ton (14) of annular section affixed to said cylind-
rical portion (4B), said driving piston (14) having
a section which is not less than 1.3 times the sec-
tion of said blast piston (10).



(Complete Specification 9 Pages ; Drawing
1 Sheet).

Indl Cl. : 206E

180085

Int. Cl.- : 04B 7/00

DIGITAL RADIO COMMUNICATION SYSTEM

Applicant : MOTOROLA INC., a corporation of the State of Delaware, United States of America of 1303 East Algonquin Road, Schaumburg, Illinois 60196, USA.

Inventor : THOMAS VICTOR D'AMICO, USA
BRIAN KEITH ALEXANDER JOHNSON USA
Application For Patent No. 366/Del/90 Filed on Date 12-4-90

Appropriate Office for opposition proceedings (Rule 4 Patent Rules, 1972) Patent Office Branch, New Delhi-110005

(Claims 4)

A digital radio communication system for use with digital radios comprising :

A plurality of cells each having at least one base station with a transmitter and receiver for providing two-way digital radio communication with said digital radios, the base station of each of the cells being in communication with said digital radios using communication frames, said communication frames having at least one inbound communication slot and at least one outbound communication slot for communicating with said digital radios, at least one of said inbound slot being used by said base station receiver for receiving information from one of said digital radios and at least one of said outbound slot being used by said base station transmitter for transmitting information to at least one of said digital radios the communication frames of each of said plurality of cells being uniform in length, a first of said cells having a base station transmitter data rate differing from at least a second of said cells base station transmitter data rate.

FIG. 1

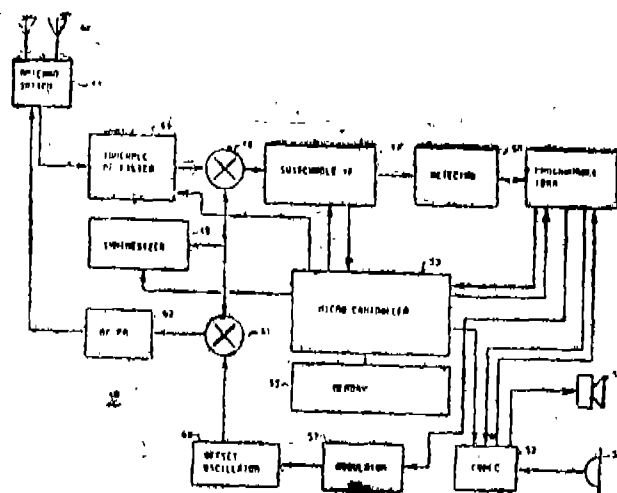
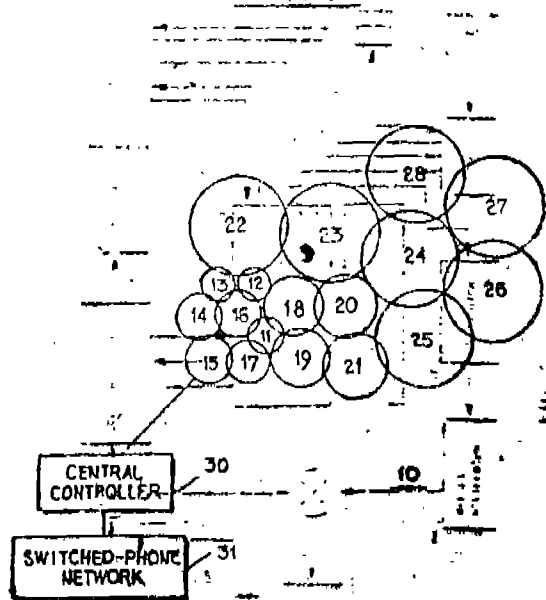


FIG. 2

(Complete Specification 11 Pages Drawings Sheets-3)

Ind. Cl.: 84 A

180086

Int. Cl.: CO2F 11/04

"AN IMPROVED APPARATUS FOR PRODUCING BIO-GAS"

Applicant : HANS KUMAR SINGH, AN INDIAN NATIONAL OF 361/893, CIVIL LINE NO. 2, BADHIYA VEER ROAD, SULTANPUR-228001. U.P.

Inventor : HANS KUMAR SINGH

Application For Patent No. 346/D/90, Filed on 6-4-90,

Appropriate office for opposition proceedings (Rule 4 Patents Rules 1972) Patent Office Branch New Delhi-110005.

Claims 3

An improved apparatus for producing bio-gas comprising a digestion chamber extending on a concrete base and terminating into a gas chamber, characterised in that a plurality of passages being provided at the base end of said digestion chamber, an inclined inlet chamber provided on one side of said digestion chamber for supplying water and chamber slurry to the said digestion chamber a Vertical outlet chamber provided on the other side of said digestion chamber supported on said concrete base being provided for the removal of digested/waste slurry, means being provided at the lower end of said gas chamber for the automatic removal of middle excess water and slurry an iron mesh being provided in the middle of said digestion chamber for breaking the scum formation in the said digestion chamber, a man-hole having a gate valve being provided at the upper surface in the centre of said gas chamber.

(Complete Specification : 9 Pages, Draing 1 Sheet)

Int. Cl⁴ : D 01 H—13/30

180091

Ind. Cl. : 172 F

"PROCESS AND APPARATUS FOR REMOVING EXCESS LIQUID FROM A FASTMOVING THREADS"

Applicant : MASCHINENFABRIK RIETER AG.
a body corporate organised under the laws of Switzerland of CH-8406 Winterthur, Switzerland.

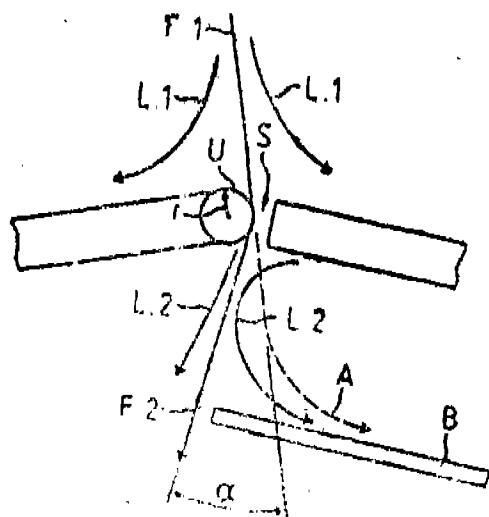
Inventor : 1. FELIX GRAF

Application No. : 341/MAS/91 Filed on 30-04-1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent office, Madras Branch.

25 Claims

A process for drying liquid charged wet thread by removing excess liquid from a fast-moving thread comprising the steps of : passing a thread having entrained liquid therein through a fixed path in a thread guide with a linear movement and at a high linear speed, deflecting the thread at least one predetermined point in said fixed path within the thread guide over a predetermined angle whereby said high linear speed of the thread is sufficient to effect hurling of liquid from the thread under centrifugal force at said at least one point, removing the liquid hurled off the thread from the thread guide, and deflecting a part of an air flow flowing with the thread at said at least one predetermined point from the thread in a direction away from the thread.



COM : 20 Pages; Drawings : 5 sheets.

Ind. Cl. : 40 B & F.

Int Cl⁴ : B 01 J 20/00

180092

"A METHOD FOR PREPARING A SORBENT COMPOSITION USEFUL IN REMOVING OXIDES OF SULPHUR FROM A GAS STREAM"

6-407 GI/97

Applicant : Board of Trustees, Operating Michigan STATE UNIVERSITY, a Constitutional Corporation, East Lansing, Michigan 48824, USA.

Inventors : 1] THOMAS J PINNAVAIA.

2] CHRISTINE ANNE POLANSKY

3] JAYANTHA AMARASEKERA

Application No : 349/MAS/91 filed on 1 May 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rule 1972), Patent Office, Chennai Branch.

11 Claims

A method for preparing a sorbent composition useful in removing oxides of sulphur from a gas stream comprising the steps of preparing an aqueous suspension of smectite clay, adding to the said suspension at least one aqueous solution containing a basic compound selected from alkali and alkaline metal salts and bases, separating the solids from the suspension and drying the composite material to obtain the sorbent composition wherein the weight ratio of the basic compound to the clay is between 1 : 3 to 5 : 1.

(Com. : 25 Pages ,

drawgs : 5 Sheets)

Int Cl⁴ —A 47J 27/092

180093

Ind. Cl⁴ —49 H

"AN IMPROVED PRESSURE COOKER"

Applicant : TT LIMITED an Indian Company of Dooravaninagar, Bangalore-560016, Karnataka State, India.

Inventor : 1. M KRISHNASWAMY

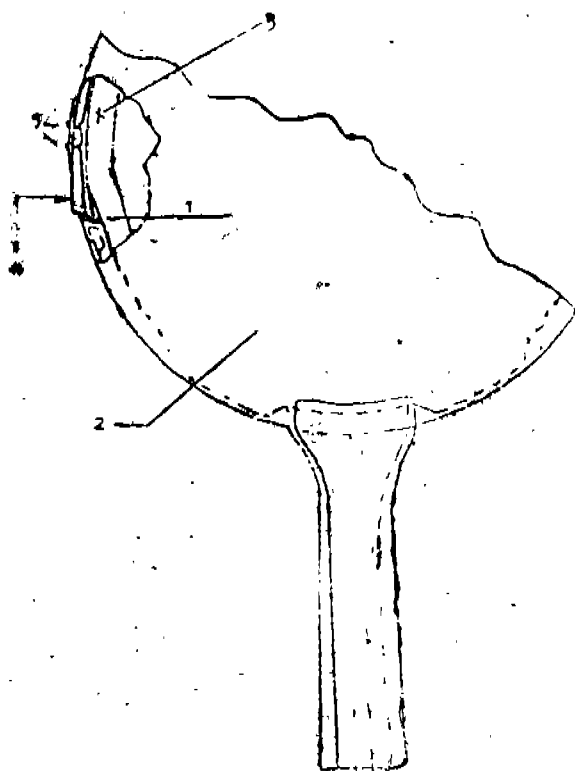
Application No. : 31/MAS/91, Filed on 1-05-1991.
Complete Specification left May, 1992.

Appropriate office for proceedings (Rule 4, Patents rules 1972) patent office, Chennai Branch.

3 Claims

An improved pressure cooker comprising a body (1) a lid (2) which fits on the said body, said lid having a rubber gasket (3) which seals the steam escaping from the body characterised by a gasket off-set device (GOD) provided in the lid (2), said gasket off-set device (GOD) comprises a spring clip (4) attached to the body of the lid with rivets (5), the said clip (4),

consists of a bent portion which pushes the gasket (3) inward away from the sealing surface through a slot on the rim of the lid (?).



Citation : EP 210914, EP 9110 1957
(COM. - 10 Pages, Drwgs.-2 Sheets.)

Ind. Class-27-I,
Int. Cl.4-C21 B13/00

180094

METHOD AND APPARATUS FOR PRODUCING CEMENT COATED IRON-BEARING PARTICLES.

Applicant : HYLSA S.A. de C.V., A CORPORATION ORGANIZED UNDER THE LAWS OF THE REPUBLIC OF MEXICO, OF APARTADO POSTAL 996, MONTERREY, NUEVO LEON 64000, MEXICO.

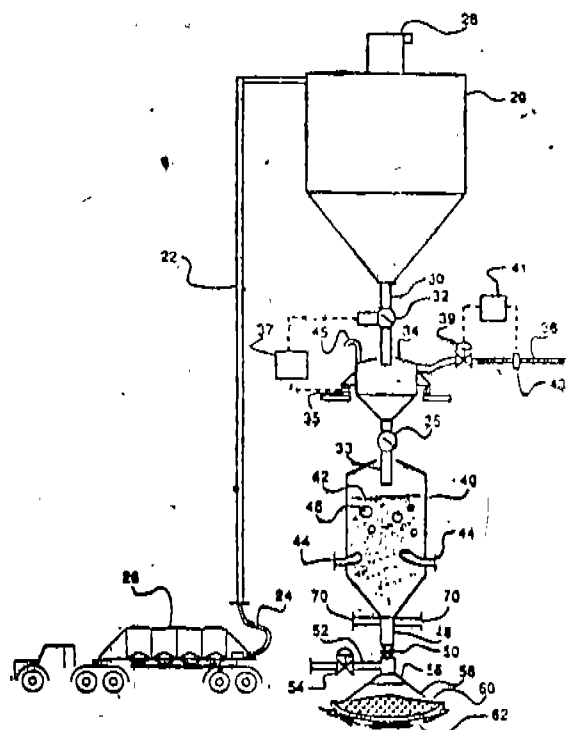
Inventors : (1) JORGE DOMINGO BERRUNCASTANON,
(2) MARIA TERESA GUERRA-REYES,
(3) LEOPOLDO ISRAEL RUIZ-LEAL

Application No. 357/MAS/91 dated May 3, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch

9 Claims

Method of producing cement coated iron-bearing particles comprising the steps of introducing powdered cement and water into a bin to form a suspension of 10 to 20% by weight of cement, injecting air into said bin to cause said cement powder and water to be thoroughly mixed and maintaining said suspension under agitation by means of said inject air, and spraying said suspension from a discharge pipe issuing from said bin, said discharge pipe being proximate said iron-bearing particles such that said spraying forms a coating on at least part of some of the particles, and such spraying comprising injecting a stream of air into said discharge pipe but upstream of the discharge spraying end of said discharge pipe, so as to regulate the amount of said suspension flowing out of the discharge pipe and onto the particles.



(Com.—24 pages, Drwgs.—2 sheets)

Ind. Cl. : 178

180095

Int. Cl. : B28 D 5/00, B24 B 1/00

"A ROTARY GRINDING CROWN FOR WORKING A GEMSTONE WORKPIECE"

Applicant : Brilcut Patentanstalt, of Staedtle 36, FI-9490 Vaduz, Liechtenstein, of Liechtenstein Nationality.

Inventors : 1. ALEC LEIBOWITZ
2. PETER COOKF.

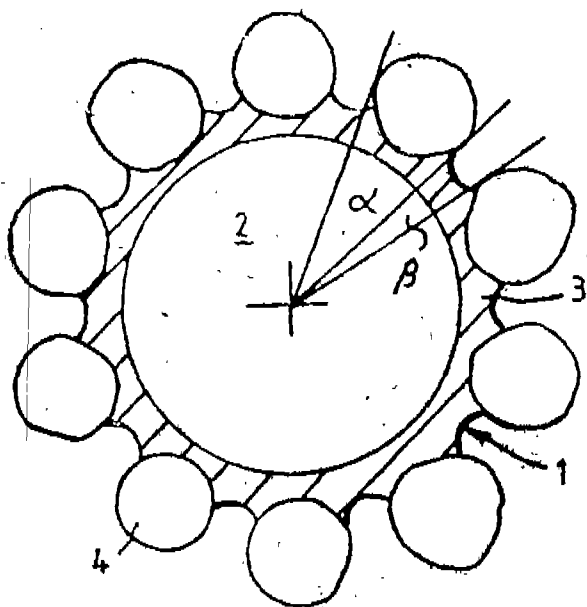
Application No. 359/MAS/91 filed on 3rd May 1991.

Convention date : 4th May 1990, No. 9010176.7,
Great Britain.

Appropriate Office for Opposition Proceedings
(Rule 4, Patents Rule 1972), Patent Office, Chennai
Branch.

6 Claims

A rotary grinding crown for working a gemstone workpiece, characterised in that the said grinding crown has a working face on which plurality of grinding stones are set, each said grinding stone-subtending at the the axis of the grinding crown an angle of at least 10° between the leading part and the trailing part of the grinding stone.



(Com. : 36 Pages ,

Drwg. : 3 sheets)

Ind. Cl - 155 A

180096

Int. Cl⁴ : B 32 B 35/00

"AN APPARATUS FOR COATING AND LAMINATING OF SHEETS HAVING PERFORATIONS OR APERTURES".

Applicant : KONSTANTINOS KARAYANNIS,
of 139 Xenofontos Str, 176 74 Kallithea, athens
Greece, Greek Citizen.

Inventor : Konstantinos Karayannis

Application No. : 362/MAS/91 Filed on 6-5-1991.

Appropriate office for opposition proceedings
(Rule 4, Patents Rules, 1972), Patent office, Madras
Branch.

11 Claims

An apparatus for coating and laminating of sheets having perforations or apertures comprising a sheet feeding device (2 to 11, HEZ) for feeding said sheets

(1) one at a time, coating means for coating said sheets comprising at least one coating cylinder (14) and at least one material flow control cylinder (15), transporting means for transporting a film material (17) from a roll to a set of pressure cylinders (16) between which the coated sheets (1) are pressed with said film material (17) and a cutting device (27 to 33) for cutting the film material (17) characterised in that the sheets feeding device comprises a horizontal platform onto which a stack of sheets are placed, and a feeding head which transfers said, sheets (1) from said platform to said coating means, said platform being vertically movable and provided with openings through which a plurality of bars or blades (HEZ) extends, said bars being adjustable in a vertical direction, the top portion of said bars (HEZ) forming an obtuse angle with respect to the lower portion of said bars and pointing in the direction of movement of said sheets said feeding head being provided with a plurality of suction cups (2) which are being supported on first or second supporting blocks (3), said first and second supporting blocks (3) with said suction cups (2) are being supported on first and second shafts (4), respectively, said supporting blocks (3) are capable of being transposed along and being rotated around its respective shaft (4a), said first and second shafts (4a) are attached to the lower end of a plurality of first and second arms (5, 5a) respectively; the upper ends of said first arms (5a) being pivotally attached to a horizontal axis (4), said second arms (5) being supporting and guided by slide members (7), enabling said second arms (5) to slide up and down, a cam mechanism (9) which is attached to a central shaft (8) rotates and obligate the second arms (5) to slide up and down and pivots the first arms (5a) around said horizontal axis (4), springs (11) which restore the said arms (5, 5a) with said suction cups (2) in their initial positions, the said coating means further comprises a fixed position rotatable pressing cylinder (13) which is parallel to the horizontal coating cylinder (14), said pressing means (13) and said coating cylinder (14) being placed above each other with a horizontal offset (a) between them, said coating cylinder (14) and said material flow control cylinder (15) being attached at each and to horizontally arranged first leg of a pair of L-shaped arms (22), the distance between said pressing means (13) and said coating cylinder (14) is regulated with a cam (24) engaging the second legs of said L-shaped arms (22), said L-shaped arms are pivotally attached to pins (23) at the point where the two legs of each arm meet, the cutting device (27) to (33) comprises a knife (29) and a plate (33), both extending across the film material (17) with sheets (1) which are unrolled and fed steadily into the cutting device (27 to 33), a piston (31) which moves the knife (29), photocell (28) being placed before said knife (29) in order to

register the position of said sheets (1) and being connected to a control unit; said control unit being capable of stopping said film material (17) when an edge of sheet (1) is positioned such that, upon activation of said knife (29), said film material (17) is cut at the edge of said sheets, and means for collecting the cut off sheets.

(Com. : 33 pages

Drwgs. 7 Sheets

Ind. Class : 68-C&D

180097

Int. Cl. 4—H02 B1/00, 11/00

A STATIC CONVERTOR FOR AN UNINTERRUPTIBLE ELECTRICAL POWER SUPPLY SYSTEM

Applicant : MERLIN GERIN, A FRENCH COMPANY, OF RUE HENRI TARZE, F 38050 GRF-NOBLE CEDEX, FRANCE.

Inventors : (1) FLORINA JEAN-NOEL

(2) DENIS HERVE.

Application No. 374/MAS/91 dated May 10, 1991.
Divisional to Patent Application No. 867/MAS/87,
Ante-dated to December 2, 1987.

Appropriate Office for Opposition Proceedings
(Rule 4, Patents Rules, 1972) Patent Office, Chennai Branch.

4 Claims

A static convertor for an uninterruptible electrical power supply system, having a plurality of draw-in electronic modules housed in a parallelepipedic cubicle (12) and comprising;

—a rectifier-charger (CH) whose input is connected to an AC mains system,

—an inverter (M) connected to the rectifier-charger (CH) output for DC/AC conversion,

—A battery bank (B) provided as a buffer to constitute a permanently available power store at the inverter (M) input,

—a metal frame (14) of the cubicle (12), provided with blanking walls parallel two by two to delimit a front panel, a rear panel, and two opposite side panels extending depthwise in the cubicle,

—a ventilation unit to provide forced circulation of the cooling air of the module inside the cubicle,

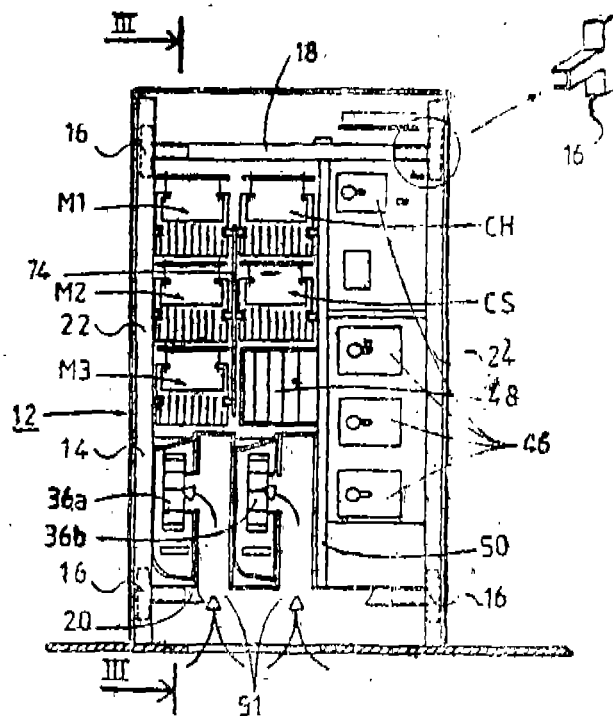
—an inlet orifice (51) to suck fresh air into the cubicle,

—an outlet orifice (39) to discharge the heated air to the outside,

the draw-in modules (M1, M2, M3, CH, CS) being accessible through a door of the front panel and being located above the ventilation unit (36) comprising at least one fan (36a, 36b), the modules and fans assembly extending over a fraction of the depth of the cubicle (12), to provide a rear compartment (59) acting as housing for transformer (32) controlling the inverter (M),

— a main discharge orifice (52) of the fan (36a, 36b) being directed towards the front panel to establish a first internal cooling air path (F1) after pressurization of the air contained in a front space (54) situated between the modules and the front panel (44),

and a secondary discharge orifice (58) of the fan (36a, 36b) being located opposite the main orifice (52), to generate a second internal cooling air path (F2) towards the transformer (32), the dimension of the secondary orifice (58) being smaller than that of the main orifice (52).



(Com. — 21 Pages, Drwgs — 11 Sheets)

Ind. Class : 107-F

180098

Int. Cl. 4 : F 02 P 7/00

AN IGNITER SYSTEM FOR FIRING A SPARK PLUG

Applicant : COEN COMPANY INC., OF
1510 ROLLINS ROAD, BURLINGAME, CALIFORNIA 94010.
U. S. A., U. S. COMPANY.

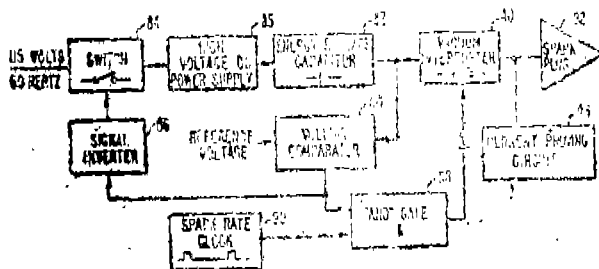
Inventors : (1) TED GOTISAR,
(2) RONALD J. JENSEN,

Application No. 378 / MAS / 91, Dated May 13, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

(10 CLAIMS)

An ignitor system for firing a spark plug comprising : an energy storage device, means, coupled to said energy storage device, for monitoring a quantity of energy stored in said energy storage device and for issuing a control signal when a given quantity of energy is stored in said energy storage device, a vacuum interrupter switch having first and second terminals wherein said first terminal is coupled to said spark plug, and said second terminal is coupled to said energy storage device, and means, coupled to said means for monitoring and to said vacuum interrupter switch, for closing said vacuum interrupter switch when said control signal is asserted, whereby when said vacuum interrupter switch closes said given quantity of energy is transferred from said energy storage device to said spark plug.



(Com. — 25 Pages, Drawgs. — 6 Sheets).

Ind. Cl : 152 E 180099
Int. Cl4 : C 08 L 63/00

RESIN COMPOSITION FOR USE IN CATIONICALLY ELECTRODEPOSITABLE PAINT

Applicant : KANSAI PAINT CO., LTD.,
a Japanese Body Corporate,
of 33—1,
Kanzaki-cho, Amagasaki-shi,
Hyogo-ken, JAPAN.

Inventors : 1. Reiziro NISHIDA
2. Akira TOMINAGA

Application No. 379/ MAS 1991—Filed on 13-05-1991.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

(12 CLAIMS)

A resin composition for use in cationically electrodepositable paint comprising (A) a base resin containing a primary hydroxyl group and a cationic group, the said base resin being the reaction product of a polyepoxy resin and cationizing agent, the epoxy group of the said polyepoxide resin derived from a ployphenol based polyepoxide and (B) a cross linking agent, the said cross linking agent being the reaction product of a compound (B 1) having one hydroxyl group and at least one alicyclic epoxy group and a poly isocyanate compound (B 2) selected from aliphatic, alicyclic and aromatic polyisocyanates wherein the said reaction product has substantially no free isocyanate groups, the said compound (B 1) has an average molecular weight of 100 to 20,000 a hydroxy equivalent of 100 to 20,000, an epoxy equivalent of 100 to 1,000, and a melting point of 130°C or below the said cross linking agent or the reaction product (B) has an epoxy equivalent of 100 to 2,000, an average molecular weight of 100 to 20,000, the weight ratio of the cross linking agent B with respect to the base resin A is 0.1 to 1.0.

(Comp. Specn. 34 Pages — Drawgs. Sheets —

Ind. Cl : 107 G

180100

Int. Cl 4 : F 02 M 25/00

DEVICE ASSOCIATED WITH AN INTERNAL COMBUSTION ENGINE

Applicant : MULTIATHIS MARKOU

of P.O. Box 21557, 55201 Panorama, Thessaloniki, Greece,
a Greek citizen.

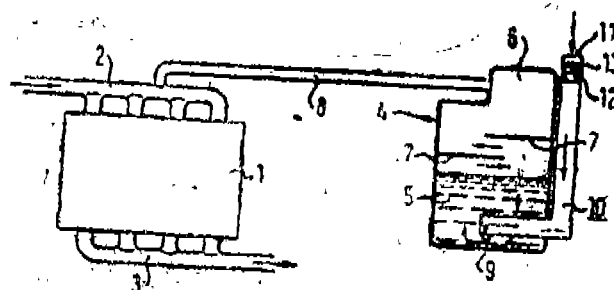
Inventor : Miltiathis markou.

Application No. : 447/MAS/91 filed on 11th June, 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Chennai Branch.

20 Claims

Device associated with an internal combustion engine, for introducing a small amount of a rare earth containing mixture such as herein described into the combustion chamber of the engine, the said device comprising a container (4), in which the said mixture is provided as a filling (5) in dry air-entrainable form, the said container (4) being provided with an opening (11) to the atmosphere through a suction connection (8) with the combustion chamber of the engine (1) so that atmospheric air flowing through the container (4) takes up and transports desired dry particles of the rare earth containing mixture from the container.



(Com.—21 Pages, Drawgs. 2—Sheets)

Ind. Cl : 118 A

180101

Int. Cl : B 62 D 55/08

"ISOLATED RIM ROLLER ASSEMBLY FOR SUPPORTING AND GUIDING THE ENDLESS TRACK OF A TRACK-TYPE VEHICLE"

Applicant : CANTERPILLER INC., of 100 NE Adams Street, Peoria, Illinois 61629-6490, a Corporation Organised and existing under the laws of the state of Delaware U.S.A.

Inventor : I. MARK S. DIEKEVERS

Application No : 445/MAS/91 filed on 11-06-1991

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Chennai Branch,

6 Claims

An isolated rim roller assembly for guiding and supporting the endless track of a track-type vehicle, comprising :

--a mounting shaft having a first mounting end portion and a second roller supporting end portion;

--a roller shell having first and second end portions, an axial throughbore, first and second radially extending flange portions, and first and second shoulder portions;

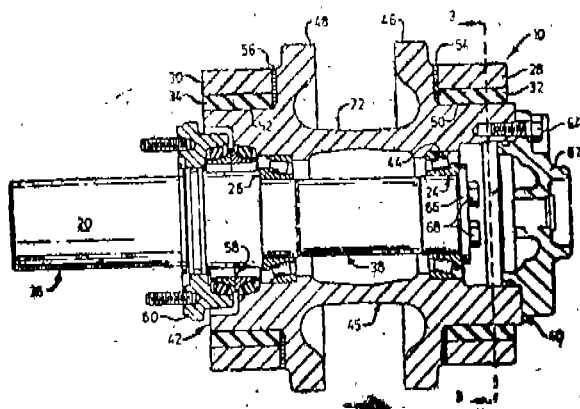
--a plurality of bearing assemblies positioned between a said roller shell axial throughbore and said mounting shaft second end portion;

--first and second metallic rims encircling respectively said first and second shoulder portions;

--first and second resilient non-metallic cushioning rings positioned respectively between said first and second shoulder portions and said first and second rims;

--first and second non-metallic washers positioned respectively between said first rim and said first flange portion and between said second rim and said second flange portion; and

means for securing said first and second cushioning rings respectively to said first and second shoulder portions, to said first and second rims, and to said first and second washers,



(Com.-13 Pages)

Drawing : 2 Shes)

Ind. Cl. : 87 I

180102

Int. Cl.4 : A 63-H 27/133

"TOY HELICOPTER"

Applicant & Inventor : APPAKUDAL JAYARAMAN SRINIVASAN, Indian, of 15 Rajagopalan Building, Sri Rama Temple Road, New Thippasandra, Bangalore-560 075, Karnataka, India;

Application No : 434/MAS/91 filed on 7th June, 1991

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972), Patent Office, Chennai Branch,

10 Claims

Toy Helicopter comprising--

--a base assembly consisting of moulded base with a stack tube,

--an air traffic housing with a rotating assembly fitted on the top of said tube,

--a helicopter having an electrical motor inside and a twin engine housing and gear box with rotating rotor fixed on its top,

--the said helicopter is mounted on a main pivot tube having a counter balance weight on the other end,

--the said pivot tube is mounted on the rotating base of the said rotating assembly,

--a control box including a joy-stick for controlling the speed and altitude of the helicopter is connected to the said base assembly through a cable assembly,

(Com. : 16 Pages;

Drawing- 3 Sheets)

Ind. Class : 205-H&K

Int. Cl.4 : B 60 C 7/10; 7/08

B 62 D 55/26

A GROUND ENGAGING ELEMENT FOR MOUNTING ON A BSE TO FORM A WHEEL OR ENDLESS TRACK

Applicant : ALTRACK LIMITED, AN AUSTRALIAN COMPANY, of 2nd Floor, 681, MURRAY STREET, WEST PERTH, IN THE STATE OF WESTERN AUSTRALIA, COMMONWELATH OF AUSTRALIA,

Inventor : PHILLIP JOHN ROLLINSON,

Application No.433/MAS/91 dated June 6, 1991,

Convention date June,6,1990; (No.PKO504; Australia),

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

7 Claims

A ground engaging element (13) for mounting on a base (11) to form a wheel or endless track, the ground engaging element (13) comprising a hollow body of resiliently flexible material, the hollow body having first (25) and second (27) mounting flanges disposed respectively such that in use the first mounting flange (25) engages against the base (11) and the second mounting flange (27) engages over the first mounting flange (25) of an adjacent ground engaging element (13); characterised in that the hollow body has first and second, spaced-apart longitudinal side faces (17) and an outer longitudinal face (21) for contacting the ground, the first mounting flange (25) extends outwardly of the hollow body (13) from the first side face (17), and the second mounting flange (27) extends from the second said face (17) inwardly of the hollow body, whereby in use the second mounting flange (27) is in overlying engagement against the base (1) with the first mounting flange (25) of an adjacent element (13) and the side faces (17) of the element are each in abutting engagement with a side face (17) of a respective adjacent element (13),

(Com.: 11 Pages;

Drwg. -1 Sheet)

Ind. Class : 190-B

180104

Int. Class⁴ : F 01 D 9/02**A METHOD OF REFURBISHING A STATOR BLADE**

Applicant : TURBINE BLADING LIMITED, A BRITISH COMPANY OF GEORGE BAYLIS ROAD, DROITWICH, WORCESTERSHIRE, WR9 9AB, UNITED KINGDOM.

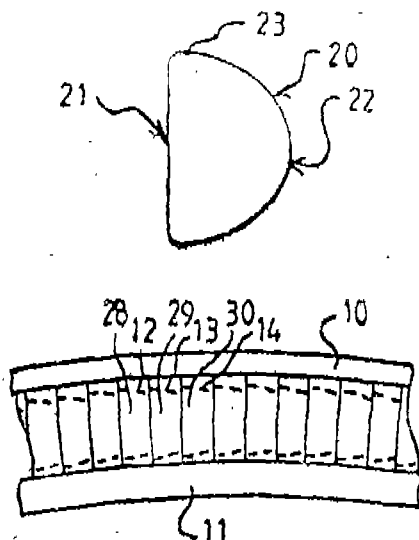
Inventor : MACHAEL JAMES FRASER,

Application No. 448/MAS/91 dated June 11, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

15 Claims

A method of refurbishing a stator blade comprising the steps of preparing a pre-shaped insert forming a substantial part of said stator blade, said insert being made from a material which is same as that of said stator blade or compatible with said stator blade, treating said insert so that at least the trailing edge portion thereof has a surface that is harder than the material from which the insert is made; removing a substantial part of said stator blade, the shape of the part removed being sufficient to accommodate said insert; welding said insert to said stator blade with a weld material the same as or similar to the stator blade and/or insert material.



(Com. -18 pages;

Drwgs.—1 Sheet)

Ind. Cl. : 190B

180105

Int. Cl.⁴ : F 01 D 5/00; B 23 P 6/00**"A METHOD OF REFURBISHING TURBINE BLADES ON A ROTOR"**

Applicant : TURBINE BLADING LIMITED, a British Company, of George Baylis Road, Droitwich, Worcestershire WR 9 9AB, England.

Inventor : RAYMOND DONALD LEGROS

Application No. 455/MAS/1991 Filed on 12-6-1991

(Convention Dated 21st June 1990; No. 9013815.7; United Kingdom)

Appropriate Office for Opposition Proceeding (Rule 4 Patents Rules 1972), Patent Office, Chennai Branch

12 Claims

A method of refurbishing turbine blades on a rotor comprising the step of: determining an aligned position of the turbine blades on the rotor (12); removing any inter-blade ties (66, 67) necessary to be removed to permit refurbishing of the blade (60); acting on any un-aligned blade to take up said aligned position and remain unrestrained in said aligned position prior to cutting, machining or welding the blade (60) during said refurbishing.

(Comp-Specn 17 Pages)

Drwg : 4 Sheets)

Ind. Cl. : 69K

1 80106

Int. Cl.⁴ : H 01 H 3/24, 33/28**"A HIGH VOLTAGE GAS-INSULATED CIRCUIT BREAKER"**

Applicant : MERLIN GERIN a French Company, of 2, Chemin Des Sources, 38240 Meylan, France a French Company;

Inventor : 1. Mario LISSANDRIN,

Application No. 456/MAS/91 filed on 13 JUNE, 1991.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972) Patent Office, Chennai Branch.

12 Claims

A high-voltage gas-insulated circuit breaker comprising : a first sealed compartment filled with a high dielectric strength insulating gas at a first pressure, said first sealed compartment housing at least one breaking pole comprising stationary and movable contacts;

an arc extinguishing device housed within said first sealed compartment for extinguishing an arc formed between said stationary and movable contacts upon separation thereof.

a contact actuating rod coupled to said movable contact, said contact actuating rod extending longitudinally axially inside said first sealed compartment;

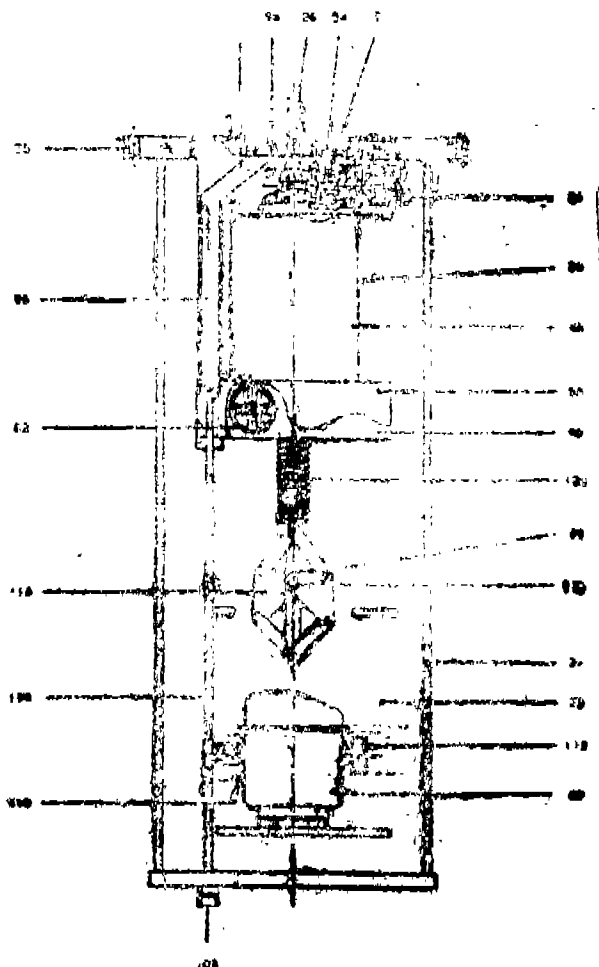
a second sealed compartment fixed to an end of said first sealed compartment and separated therefrom by a separating wall, said second sealed compartment filled with said high dielectric strength insulating gas at a second pressure which is lower than said first pressure;

a pneumatic operating mechanism disposed within said first sealed compartment and coupled to said contact actuating rod, said pneumatic operating mechanism comprising a fixed cylinder and a piston coupled to said contact actuating rod, said piston being able to slidably driven within said fixed cylinder by flow of said insulating gas from said first sealed compartment into said fixed cylinder;

a first distribution means disposed within said second compartment and at one end of said fixed cylinder to allow flow of said insulating gas from said first compartment into said fixed cylinder to drive said piston in a first direction; and

a second distribution means disposed within said second compartment and at an opposite end of said fixed cylinder to allow flow of said insulating gas from said first compartment into said fixed cylinder to drive said piston in a second direction;

Wherein said insulating gas flowed into said fixed cylinder is expelled therefrom into said second sealed compartment after said piston is driven in said first direction or said second direction, said sealed compartment thereby providing an expansion volume for said insulating gas expelled from said fixed cylinder



(com. 21 Pages)

Drwgs. 7 Sheets)

Ind. Cl: 136B

180107

Int. Cl: B2 9C 49/28

"PLASTIC PROCESSING MACHINE".

Applicant: MAUSER-WERKE GMBH childgesstr 71-163
5040 Bruhl, GERMANY,

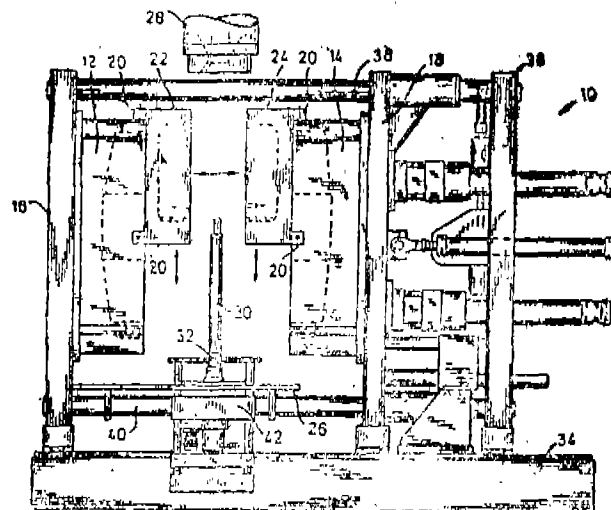
Inventor: WURZER ERNST

Application No, 464/MAS/1991

Appropriate Office for Opposition Proceedings (Rule 4,
Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

Plastics processing machine having a mould divided into two, whereof the mould halves (12, 14) are secured to two mould clamping plates (16, 18) which may be moved apart for product removal, characterized in that, for rapid change over from a first product mould to a second product mould, the mould halves (12, 14) of the first product mould clamped onto the mould clamping plates (15, 18) have securing means (2) for clamping on mould halves (22, 24) of a second product mould.



(comp. specn. 10 pages Drg. one sheet)

Ind. Class: 32-F3(c)

180108

Int. Cl.4: C 07C 67/00; 69/00

PROCESS FOR PREPARING ORGANIC ESTERS OF
SUBSTITUTED 4-HYDROXY PHENYL ALKANOIC
ACIDSApplicant: HIMONT INCORPORATED, 2801, CENTER-
VILLE ROAD, P.O. BOX 15439, WILMINGTON DELAW-
ARE, 19850-5439, U.S.A., A DELAWARE CORPORATION.

Inventors: (1) Vu A, DANG.

(2) GLEASON O, COOKSON.

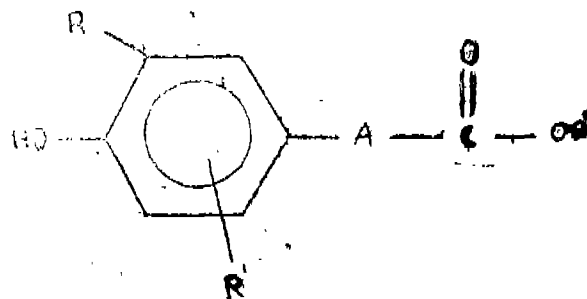
(3) KRISHNA RAMAN.

Application No, 466/MAS/91 dated June 18, 1991.

Appropriate Office for Opposition Proceedings (Rule 4
Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

A process for preparing organic esters of substituted 4-hydroxy phenyl alkanolic acids comprising transesterifying 5 to 60 mole % excess of an organic ester of the formula



wherein R and R' are a C₁ to C₁₂ linear or branched alkyl a C₅ to C₁₂ cycloalkyl, a C₆ to C₁₂ aryl or a C₇ to C₁₂ alkaryl or aralkyl which may be the same or different. A is a C₁ to C₆ linear or branched alkylene or a single direct bond, R'' is methyl or ethyl with a C₄ to C₂₀ linear or branched aliphatic alcohol or thioether alcohol having one or more hydroxyl groups in the presence of a polar aprotic organic compound selected from the group consisting of N-methyl pyrrolidinone, 1, 2-dimethoxy benzene, N, N-dimethyl acetamide, hexamethyl triphosphoramide, dimethylformamide, dimethylamino pyridine, tetramethylene sulphone, tetra ethylene glycol

dimethylether, ethylene glycol dimethyl ether, N, N, N', N' tetramethylene diamine, 1, 3-dimethyl 1, 2-imidazolidinone, dimethyl sulphoxide, tetrahydrofuran, 12-Crown-4-ethers and a basic inorganic compound catalyst system selected from the group consisting of alkali metal hydroxides, alkali metal alkoxides, alkali metal amides, alkali metal alkyl amides and alkali metal hydrides, at a temperature from 60° to 185°C under vacuum or under a flow of inert gas at atmospheric pressure, and recovering the ester by known means.

(Com.-17 pages)

Ind. Cl.: 35E 180109
Int. Cl.4: C 04 B 35/00

"A METHOD OF MAKING REFRACTORY ARTICLES"

Applicant: BORDEN CHEMICAL INC., a Corporation organised under the Laws of the State of Delaware, U.S.A., of 180 East Broad Street, Columbus, Ohio 43215, U.S.A.

Inventors: (1) John Gerard Taylor.
(2) Arthur Harry Gerber.

Application No.: 573/MAS/91 filed on 30th July, 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

16 Claims

A method of making refractory articles which comprises forming a mixture of A, a aggregate; B, a curable phenol-formaldehyde resole resin having 15% to 25% by weight of free phenol, a formaldehyde to phenol molar ratio of from 1 to 1.5 moles of formaldehyde bound with each mole of phenol, a pH of about 4.5 to 9, a solids content of 40% to 80% and a viscosity of 150 to 1,500 cps at 25°C to bind the aggregate upon hardening of the resin at room temperature; and C from 15% to 45% by weight of the resin, of light-burned magnesium oxide hardener having a surface area of at least 20 square meters per gram; forming the mixture into the desired shape and hardening the mixture at a temperature in the range of from 18°C to 32°C.

(Com, 58 Pages).

Ind. Clas:-5-C 180110
Int. Cl.4:-A 01 C 23/00

A HARVESTING APPARATUS

Applicant: FRISH PTY. LTD., AN AUSTRALIAN COMPANY OF 36 HENRY STREET, TRIABUNNA, TASMANIA 7190 AUSTRALIA.

Inventor: BERNARD JAMES QUIN.

Application No. 580/MAS/91 dated July 31, 1991.

Conveniton date: August 3, 1990; (No. PK 1549; Australia)

Appropriate Office for as position Proceedings (Rule 4, Patent: Rules, 1972), Patent Office, Chennai Branch

22 Claims

A harvesting apparatus comprising an inlet means capable of selectively engaging a body of water at or near the surface thereof;

7-407 GI/97

at least a first separating stage;

said apparatus being operable to allow water to flow over the inlet means to the, or at least one, first separating stage by relative movement between the inlet means and the body of water;

a pivotal communication between said inlet means and said first separating stage capable of independent vertical movement; and

control means for controlling the flow rate of water over said inlet means to said first separating stage, and to adjust the height, depth or angle of the first separating stage relative to the surface of the body of waters wherein said Pivotal communication forms part of and is able to the coordinated with said control means.

(Com. 23 Pages; Drwgs.-5 sheets)

Ind. Cl.: 151E 180111
Int. Cl.4: F 17 D 1/18

"RETARDING HEAT TRACING SYSTEM AND METHOD OF MAKING SAME."

applicant: THERMON MANUFACTURING COMPANY of 100 Thermon Drive, San Marcos, TX 78666, United States of America.

Inventors: (1) Roy E. Barth
(2) Joseph M. Venable
(3) Atlee E. Fritz
(4) Arthur Medonald

Application No 772/MAS/1991 Filed on 15-10-1991.

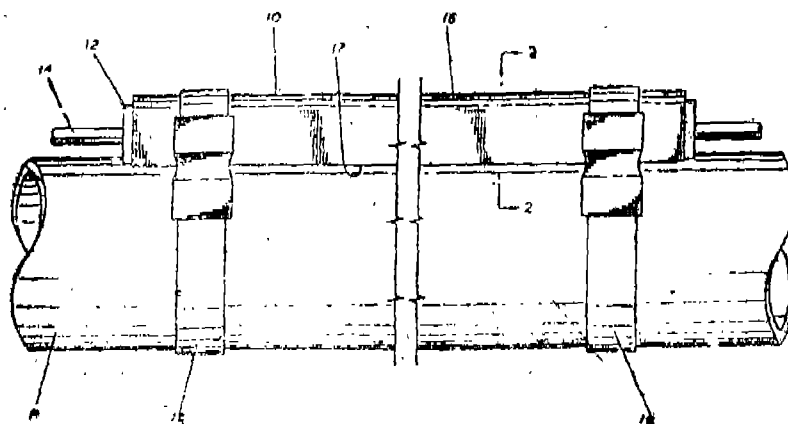
Appropriate Office for apposition Proceedings (Rule 4 Patents Rules 1972), Patent Office, Chennai Branch.

17 Claims

A retarding heat tracing system (10) for externally heating a process pipe (P) to be maintained within a specified temperature range, comprising a channel member (16) having a pair of longitudinally extending edges (17) and a longitudinal recess (19) formed there between, the said longitudinally extending edges (17) abutting the process pipe (P), a heat transfer element (14) extending longitudinally within said longitudinal recess (19) a preshaped heat transfer strip (12) having an external shape substantially conforming to the longitudinal recess (19) of the channel member (16) and positioned in the longitudinal recess (19) between the channel member (16) and the process pipe (P), the heat transfer strip (12) maintaining the heat transfer element (14) out of direct contact with the process pipe (P), and means (18) for attaching the channel member (16) to the process pipe (P), the said heat transfer strip being made of a retarding heat transfer material (13) for optimising the heat transfer between the heat trans-

for element (14) maintained at a temperature substantially higher than the specified temperature range of the process pipe, the said retarding heat transfer material having a thermal

conductivity not greater than 1.5 BTU-In/Hr-Ft²-°F to maintain the said process pipe within the specified temperature range.



(Comp. Specn 25 pages Drawgs 2 sheets)

Ind. Cl. : 129-J,

180112

Int. Cl. : B 21 b 13/00 and 31/00.

Title : ROLLING MILL STAND WITH ARRANGEMENTS FOR SUPPORTING AN UPPER WORK ROLL OF THE STAND.

Applicant : SMS SCHLOEMANN-SIEMAG AKTIEN-GESELLSCHAFT, A German Company, of Eduard-Schloemann-Strasse 4, 4000 Dusseldorf 1, Federal Republic of Germany,

Inventors : MARTIN BRAUN, JURGEN ARMENAT and HEINRICH ROSE.

Application No : 773/MAS/91, Filed on 15th October, 1991.

Appropriate Office for Opposition Proceedings, (Rule 4, Patents Rules 1972), Patent Office Branch, Chennai.

11 Claims

A Rolling mill stand, Comprising :

An upper work roll; a lower work roll, wherein said upper and lower work rolls are supported in chocks; balancing cylinders for raising the upper work roll from the lower work roll; mechanical means for supporting the upper work roll for a roll change on the balancing cylinders above the lower work roll for preventing contact of the rolls; pivotable support levers included as part of one of said rolls, wherein each lever is movable between a basic position and an effective position and extends in the basic position thereof around sides of the chocks of the other of said rolls; grooves defined by the chocks of the other of the rolls; and free ends. In the support levers, wherein the free ends rest on bottom of the grooves when the support levers are in the effective position.

Comp. 16 Pages

Drs. 03 Sheets

Ind. Cl. : 163 C, D,

180113

Int. Cl. : F 04 D 15/00

"A VERTICAL SHAFT TYPE AXIAL FLOW LIQUID PUMP."

Applicant : MITSUBISHI JUKOGYO KABUSHIKI KAISHA, of 5-1, Marunouchi 2-chome Chiyoda-ku, Tokyo Japan, a Japanese Company.

Inventor : 1. NOBUO KIDA,

2. AKIRA YONEI,

3. KENZI KIYOTA

4. HIROSHI OYA.

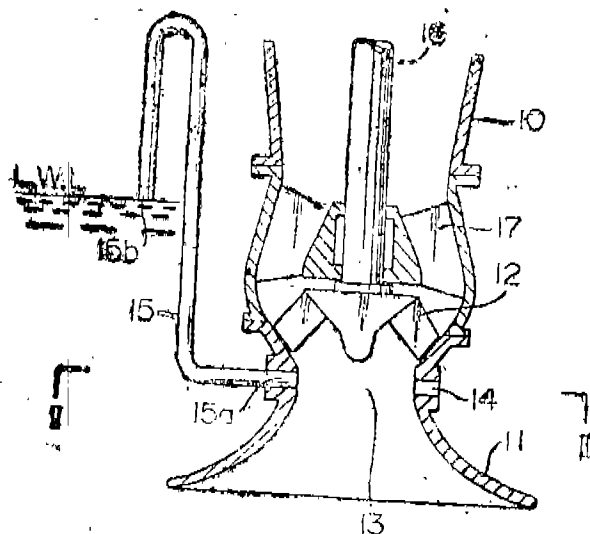
Application No : 779/MAS/91, Filed on 16-10-1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

2 Claims

A vertical shaft type axial flow liquid pump comprising a pumpcasing having a liquid intake suction tube section having an inlet end for immersion in said liquid, an impeller section adjacent said intake section and a discharge section downstream of said impeller section; an impeller in said impeller section for pumping liquid through said casing; a substantially vertical shaft connected to said impeller for driving said impeller; a plurality of air intake holes through said suction tube section proximate said impeller; and an air intake pipe having an outlet end connected to one of said holes and an inlet end positioned at a preset lowest suction liquid level of said liquid, so that when the level of said liquid drops below said holes a air

enters the other of said holes to provide air and liquid separation in said suction tube section for stable operation of said pump.



Com, 2 Pages

Drwgs : 9 Sheets

Ind. Cl. : 88 D and 206 E..

180114

Int. Cl. : G 05 d 7/00 ,

FLOW COMPUTER FOR GAS FLOW METERING USING MICROPROCESSOR AND DIGITAL CIRCUITS.

Applicant : FLUID CONTROL RESEARCH INSTITUTE, KANJIKODE WEST, PALGHAT-678 623., KERALA.

Inventors : M. A. ATMANAND,
M. S. KONNUR and
PARAYIL USMAN.

Application No. : 785/MAS/91, Filed on 21st October, 1991.

Appropriate office for Opposition Proceedings, (Rule 4, Patents Rules 1972), Patent Office Branch, Chennai,

03 Claims.

A flow computer used for gas metering, comprising resistors to step down the input (D P, P and T) signals, a frequency to voltage converter (F V) to convert pulse signals to voltage signals, connected to a multiplexer (M U X), thereon to a 12-bit Analog-to-digital converter, which is connected to a microprocessor through a driver, a keyboard and display adaptor, whose output is connected to the microprocessor, a RAM and EPROM Connected to the Micro processor through two drivers, the multiple channel selection lines connected to the microprocessor through driver ICs, whereby the measured voltages corresponding to D P/PU, P, T are measured digitally by the microprocessor, the flow parameters readable on-line and converted to NTP and corrected value displayed on the system,

Comp : 04 Pages

Drwgs. 02 Sheets

Ind. Cl. : 116 H

180115

Int. Cl. : B 66 C 13/00

"A CRANE WITH ALIGNMENT MEANS FOR REDECKING"

Applicant : THE MANITOWOC COMPANY, INC.,
500 South 16th Street, Manitowoc, Wisconsin 54221-0066,
United States of America, U.S. Company.

Inventor : 1. TERRY WAYNE KLEPPE.

Application No. 791/MAS/1991 Filed on 21st October, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

A crane with alignment means for redecking comprising a crane upper works; a crane lower works; and hanging means for pendently hanging said lower works from said upper works for aligning the said lower works with said upper works, said hanging means comprised plurality of pendants pivotally connecting said lower works to said upper works, said pendants having sufficient strength to carry the weight of said lower works.

Com Specn. 19 Pages

Drwgs. -7 Sheets

Ind. Cl. : 116 H

180116

Int. Cl. : B 66 C 23/00

"A CRANE"

Applicant : THE MANITOWOC COMPANY, INC.,
500 South 16th Street, Manitowoc, Wisconsin 54221-0066,
U.S.A., a U. S. Company.

Inventors : JOHN M. LANNING

Application No. 793/MAS/1991 Filed on 21st Oct, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch,

8 Claims

A crane comprising a load hoist line, a boom having a tapered boom butt, boom hoist rigging, and an equalizer, said boom being supported by said boom hoist rigging and said equalizer, wherein said equalizer is directly connectable to said boom butt,

Com. Specn. -14 Pages

Drwg. -10 Sheets

Ind. Cl. : 102 D

180117

Int. Cl. : B 66 C 13/00

"A MULTI-COUPLING DEVICE"

Applicant : THE MANITOWOC COMPANY, INC.,
500 South 16th Street Manitowoc, Wisconsin 54221-0066, 3
United States of America A corporation organised and exist-
ing under the laws of the State of Delaware, U.S.A.

Inventors : 1. CHARLES R. WERNECKE
2. MERLIN P. STROUF

Application No : 794/MAS/1991 Filed on 21st October, 1991.

Appropriate Office for Opposition Proceedings (Rules 4 Patents Rules 1972), Patent Office, Chennai Branch.

18 Claims

"A multi-coupling device for connecting and disconnecting hydraulic line couplings between disconnectable portions of a crane in which each of the two parts of the coupling have mating parts respectively secured to each of the disconnectable portions of the crane, the said multi-coupling device comprising: (a) a first plate rigidly holding the first part of each of said couplings in a spaced relationship, said first plate being rigidly fixed to said first crane portion;

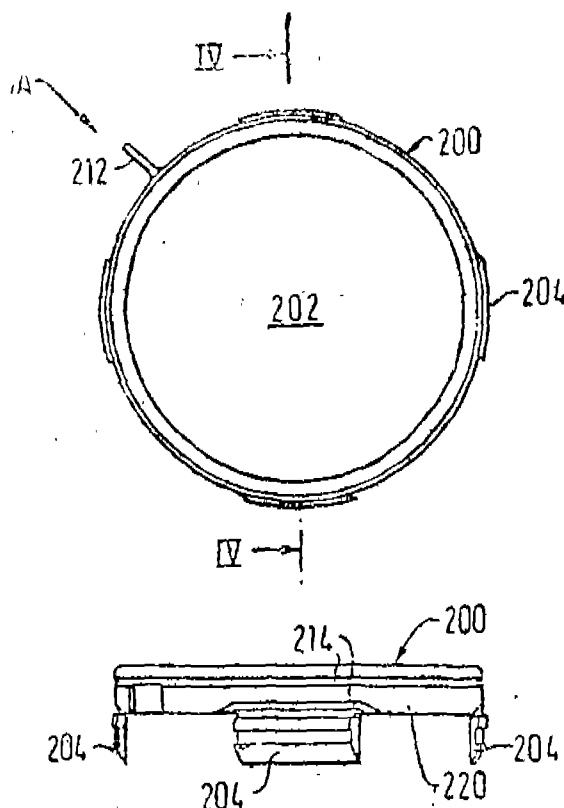
(b) a second plate rigidly holding the second part of each of said couplings in a spaced relation corresponding to the spaced relation of the first coupling parts;

(c) a mounting device which mounts said second plate on said second crane portion with a freedom of movement at least as great as the tolerance in alignment between the first and second crane portions; and

(d) alignment means for aligning said first and second plates,

Com Specn, -19 Pages

Drwgs, -7 Sheets



(Com, 14 pages; Drwgs, 3 sheets)

Ind. Class-22

180118

Int. Cl. 4 : B65D 81/00

A NON RE-USABLE CONTAINER

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF BRUETON HOUSE, NEW ROAD, SOLIHULL, WEST MIDLANDS, B91 3TX, ENGLAND,

Inventor: DEVINDER VIR RAJ.

Application No. 804/MAS/91 dated October 23, 1991.

Convention date : October 25, 1990; (No. 90 23278.6; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch,

13 Claims

A non-reusable container comprising a base portion and a lid portion, the base having apertures therein, the lid portion having peripherally-spaced tongues, each tongue having an enlarged portion which looks them within respective apertures, characterised in that the tongues are connected to the lid portion by a tear-away strip which extends around the periphery of the lid portion, so as to prevent reuse of the container once the lid portion is separated from the tongues.

Ind. Cl.: 129 J

180119

Int. Cl. 4: B 21B 1/02

"AN IMPROVED UPSETTING PRESS FOR REDUCING THE WIDTH OF ROLLED MATERIAL"

Applicant: SMS Schloemann-Siemag Aktiengesellschaft Eduard-Schloemann-Strasse 5 4000 Dusseldorf 1 Federal Republic of Germany a German Company.

Inventor: Gerhard Heitze

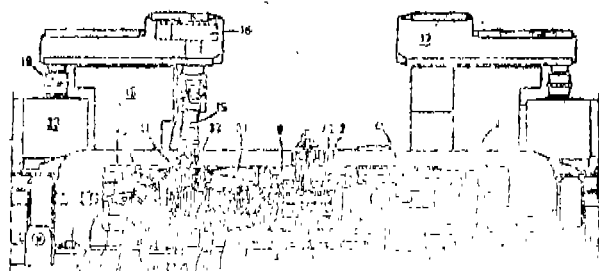
Application No. 817/MAS/91 filed on 30th Oct, 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

12 Claims

An improved upsetting press for reducing the width of rolled material, particularly for reducing the width of slabs in hot-rolled wide strip breaking-down trains, the said upsetting press comprising tool carriers arranged on both sides of the slab with pressing tools, at least one crank drive for moving the pressing tools in direction of slab reduction, the crank drive and a feeding drive being located in a crank housing, a housing post with a housing post window, the improvement comprising the crank housing with crank drive and feeding drive and the tool carrier being combined into

a structural unit, at least one rail arrangement for displacing the structural unit laterally and approximately parallel to the slab movement through the housing post window,



(Com. 19 pages; Drwgs, 3 sheets)

Ind. Cl.: A 61 N 1/00

180120

Int. Cl.: 128E

"AN APPARATUS FOR APPLYING IONTO-PHORETIC TREATMENT TO A BIOLOGICAL SUB-JECT"

Applicant: ROBERT TAPPER, a U.S. citizen of 1935 Armacost Avenue Los Angeles, California 90025 USA.

Inventor: ROBERT TAPPER

Application No. 822/MAS/91 Filed on 31st October 1991,

Appropriate Office for opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Chennai Branch,

11 Claims

An apparatus (10) for applying iontophoretic treatment to a biological subject (11), said apparatus comprising means (15) for conducting an electrical current (52) through a surface of said subject in a first direction from a first electrode (16a) to a second electrode (16b) on said subject, and means (33) for reversing the polarity of said electrodes, said apparatus characterised by the reversing means (33) intermittently reversing, at a frequency between 0.0027Hz and 10Hz which prevents skin damage, between 20 times per second and once every three minutes, the polarity of said electrodes to cause said electrical current to flow in a second direction opposite to said first direction, whereby iontophoretic treatment is continuous for extended period of time.

(Comp, 38; Drwgs, -5 sheets)

Cl.: 119B

180121

Int. Cl.: D 03 D 13/00, 15/00, 15/10.

"A WOVEN FABRIC CONSISTING OF UNCRYSTALLIZED POLY (M-PHENYLENEISOPHTHALAMIDE) STAPLE FIBER"

Applicant: E.I. DU PONT DE NEMOURS AND COMPANY, of Wilmington Delaware, United States of America.

Inventors: (1) BANTWAL JANARDHANA BALIGA
(2) DONALD EDMUND HOFFMAN.

Application No. : 208/Cal/1993 filed on 12th April, 1993.

Appropriate office for opposition proceedings (Rule 4, Patents rules 1972) Patent Office, Calcutta.

2 Claims

A woven fabric for Use in protective apparel of improved comfort characterized in that consisting essentially of spun yarns of Uncrystallized poly (m-phenylene isophthalamide) staple fiber having a 0.8 to 1.5 denier per filament; said fabric having a basis weight of from 4.0 to 8 ounces per square yard and a construction as follows:

Weave:	plain or twill
Yarn:	37/2 or finer
Warp Count:	75 to 125 ends/inch
Fill count:	at least 40 end/inch but not greater than 80% of the warp count.

the said fabric have a bending rigidity per centimeter (B) not greater than 0.09 gram force (gf) cm²/cm, a shear stiffness (G) not greater than 0.8 gf/cm deg, a surface roughness (SMD) not greater than 8.0 micrometers and a peak in transient heat loss, (Qmax), of at least 12 watts/meter² °C (W/M² °C).

Compl. Specn: 10 pages

Drwgs: Nil

Cl. : 56 D

180122

Int. Cl. : B 01 D 3/32

C 07 C 43/00.

"A PROCESS FOR PURIFYING A TERTIARY ALKYL ETHER AND RECOVERING UNREACTED ALCOHOL AND HYDROCARBONS FROM A REACTION EFFLUENT STREAM"

Applicant : PHILLIPS PETROLEUM COMPANY, of Bartlesville, State of Oklahoma, United States of America.

Inventors : 1. JOHN H. EASON
2. JOSEPH KLEPAC.

Application No : 784/Cal/1993 filed on 13th December, 1993.

Appropriate office for opposition proceedings (Rules 4, Patents Rules 1972) Patent Office, Calcutta.

7 Claims

A process for purifying a tertiary alkyl ether, and re-covering unreacted alcohol and hydrocarbons from a reaction effluent stream obtained by reacting a primary alcohol and a tertiary olefin having 4 or 5 carbon atoms per molecule, said said effluent stream containing a tertiary alkyl ether, hydrocarbons comprising unreacted isoolefins and inert hydrocarbons comprising paraffins and linear olefins, and unreacted alcohol, which process comprises :

(a) passing said etherification reaction effluent stream to a first separation zone for example of the type such as herein described;

(b) Separating said reaction effluent stream in said first separation zone under conditions as known per se which provide a first stream comprising a mixture of said hydrocarbons, said alcohol and water, a second stream comprising said tertiary alkyl ether, said second stream being substantially free of alcohol, and a third stream comprising a water/alcohol mixture;

(c) passing said first stream to a second separation zone for example of the type such as herein described;

(d) separating said first stream in said second separation zone under condition as known per se which provide a fourth stream comprising said hydrocarbons, said fourth stream being substantially free of alcohol and a fifth stream comprising a water/alcohol mixture; and

(e) combining said fifth stream and said third stream to form a sixth stream and passing said sixth stream to a third separation zone herein said sixth stream is subjected to fractionation which yields a seventh stream substantially comprising alcohol; where in in step (b) said separating in said first separation zone comprises subjecting said effluent stream to a water extraction step followed by fractionation, and in step (d) said separating in said second separation zone comprises subjecting said first stream to water extraction step followed by stripping.

(Compl Specn : 11 Pages

Drgs : 1 Sheet)

Ind. Cl. 83 A 1

180123

Int. Cl. : A 23 K 1/175.

"PROCESS FOR PREPARING SHAPED ANIMAL FEED IN THE FORM OF SOLID BLOCK LICK BY GOLD PROCESS"

Applicant : Dr. (Ms) AMRITA PATEL of Block D.K. Sector II Salt Lake City, Calcutta-700 091, West Bengal, India.

and

NATIONAL DAIRY DEVELOPMENT BOARD, City of Anand, State of Gujarat, India.

Inventors : 1. DR. MANGET RAM GARG

2. DR. ASHOK KUMAR MEHTA

(Application No : 19/Cal/1994 filed on 11th January, 1994.)

Appropriate office for opposition proceedings (Rule 4, patent rule 1972) Patent Office Calcutta.

6 Claims

A process for preparing a shaped animal feed in the form of solid block lick, particularly for ruminant animals, comprising the steps of :

- (a) mixing together molasses, urea and common salt;
- (b) adding calcium oxide to the intimate mixture of the step (a), and mixing the mass homogeneously, with addition of sodium bentonite, cereal brans and a mineral mixture, such as herein described ;
- (c) mould-pressing the mixed mass of the step (b) at ambient temperature ;
- (d) continuing the step (c) for atleast 24 hours, in ambient state; and
- (e) taking out the solidified product from the mould, followed by, if desired, packing thereof.

(Compl. Specn : 16 Pages

Drgs : NIL)

Ind. Cl. : 63 C

180124

Int. Cl. 4 : H 01 R 39/38.

"BRUSH DEVICE FOR AN ELECTRIC MOTOR"

Applicant : MITSUBA CORPORATION, of 2681, Hirosawacho 1-Chome Kiryu-Shi, Gunma Japan.

Inventors : 1. YUTAKA SHIMIZU

2. MASAMI KANO

Application No. : 100/Cal/1994 filed on 17th February, 1994.

Appropriate office for opposition proceedings (Rule 4 patent rule 1972) Patent Office Calcutta

11 Claims

A brush device for an electric motor comprising :
a brush holder stay disposed around a commutator in a motor housing for mounting thereon brush holders, said stay being constructed to be fixed to said motor housing by a single screw;

a grommet for inserting lead wires therethrough, said grommet being coupled to said brush holder stay;

a recessed portion formed on one side of said brush holder stay for coupling said grommet;

a screw insertion hole opened in the brush holder stay on the other side substantially opposed to said recessed portion centering around a rotary shaft of a motor;

a grommet insertion hole formed on one side of said housing; and

a threaded hole formed in the housing on the other side substantially opposed to said grommet insertion hole centering around said rotary shaft,

wherein said single screw is screwed into said threaded hole through said screw insertion hole, so that said brush holder stay is fixed to said housing.

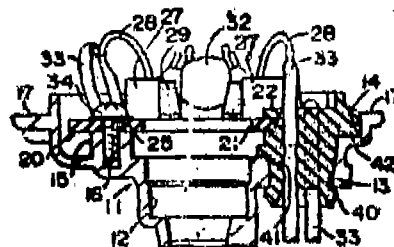


FIG. 1(a)

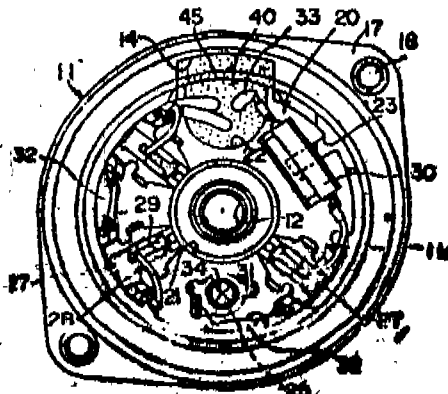


FIG. 1(b)

(Compl. Specn : 20 pages

Drgs : 4 sheets.)

Ind. Cl. : 11 C 180125
Int. Cl. : A 23 K 1/20.

**"A PROCESS FOR OBTAINING ANIMAL
FEEDSTOCK SUPPLEMENT FROM KUSUM
SEED CAKE"**

Applicant : DR. BINOD KUMAR VARMA of
& Inventor Ranchi Veterinary College, Ranchi-
834007, Bihar, India.

Application No. : 322/Cal/1994 filed on 2nd May,
1994.

Appropriate office for opposition proceedings
(Rule 4 patent rule 1972) Patent Office Calcutta

2 Claims

An improved process for the extraction of oil from kusum seed and for the simultaneous preparation of livestock feed quality kusum seed cake, which comprises subjecting kusum seed to solvent extraction using a mixture of solvents made of hexane and methanol or ethanol in the ratio of 2 : 1 by volume, carrying out extraction at temperatures of around 80°C for eight hours, this duration/period of extraction can be lessened or adjusted as per the requirement depending on the total quantity of kusum seed to be extracted, thereafter subjecting the container containing the extracted kusum seed cake to steam drying (drying under the heat of steam) till complete expulsion of residual solvent of the extracted cake which can be easily observed and obtaining a livestock feed quality kusum seed cake which is free from interfering, undersirable constituents zone with the solvent, subjecting the used solvent (extractant) containing kusum seed oil and undesirable elements to a distillation for the recovery of the solvent in pure form for being reused in the extraction process and also non-edible kusum seed oil mingled with the undesirable constituents.

Compl. Specn : 5 pages

Drgns : Nil.

Ind. Cl. : 32 F1 180126
Int. Cl. 4 : C 07 C M/12, 7/13, 21/06.

**"A PROCESS AND AN APPARATUS FOR
ISOLATING VINYL CHLORIDE"**

Applicant : HOECHST AKTIEGESELLS-
CHAFT of D-65926 Frankfurt am Main, Federal
Republic of Germany.

Inventors : 1. PETER SCHWARZMAIER
2. PETER KAMMERHOFER
3. MANFRED STÖGER
4. HELMUT KALLIWODA
5. INGOLF MIELKE.

Application No. : 847/Cal/1994 filed on 17th
October, 1994.

Appropriate office for opposition proceedings
(Rule 4 patent rule 1972) Patent Office Calcutta.

7 Claims

A process for isolating vinyl chloride, which comprises distilling off the hydrogen chloride from the reaction mixture formed in the incomplete thermal cracking of 1, 2-dichloroethane at superatmospheric pressure and temperature of from about 450 to about 650°C in the absence of catalysts in a first distillation stage and distilling off the vinyl chloride in a second distillation stage, with the vinyl chloride drawn off at the top of the second distillation stage and liquefied being partially recirculated as runback into the second distillation stage and the remaining liquefied vinyl chloride drawn off being fed to the top of a degassing zone from which a part of the vinyl chloride together with the entire entrained hydrogen chloride and water is evaporated and after subsequent removal of the water, in a known manner, recirculated into the first distillation stage, while pure vinyl chloride is taken off from the bottom of the degassing zone.

(Compl. Specn : 10 pages

Drgns : 1 sheet.)

Ind Cl. : 40 A₁ 180127
Int. Cl. 4 : B 04 C 5/00.

**"AN APPARATUS FOR THE FLUID CATALY-
TIC CRACKING OF A HYDROCARBON
FEEDSTOCK."**

Applicant : TEXACO DEVELOPMENT CORPO-
RATION of 2000 Westchester Avenue, White Plains,
New York 10650, United States of America.

Inventors : 1. LEONCE FRANCIS CASTAGNOS
Jr.,
2. HAROLD CARL KAUFMAN.

Application No. 863/Cal/1994, filed on 20th October,
1994.

Appropriate office for opposition proceedings
(Rule 4 patent rule 1972) Patent Office Calcutta.

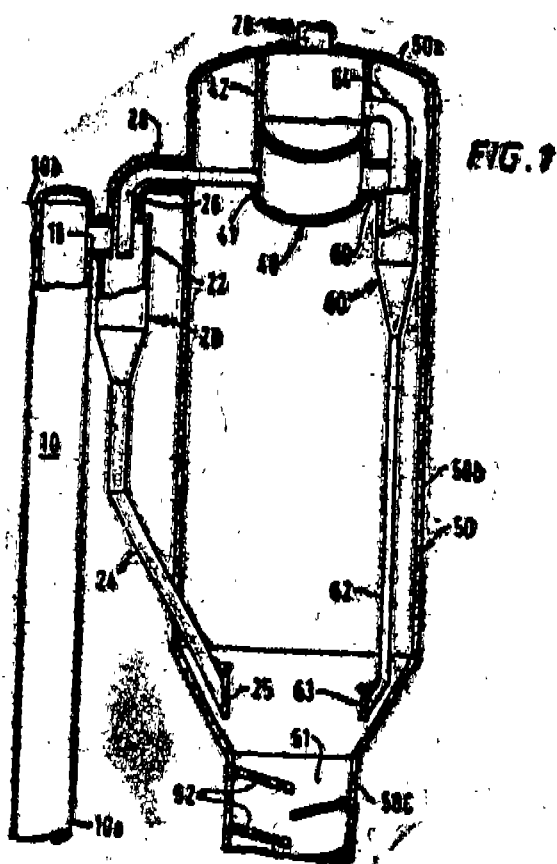
7 Claims

An apparatus for the fluid catalytic cracking of a hydrocarbon feedstock in a closed cyclone system, said apparatus comprising :

- (a) a vertically elongated reactor vessel (50) comprising at the upper end a plenum (40) for withdrawal of gases and at the lower end a catalyst stripper (51) and means for withdrawing catalyst; and

- (b) a vertically elongated riser reactor (10) directly attached to a closed cyclone (20), said closed cyclone comprising :

- (i) a vertically elongated cylinder barrel (22) external to the reactor vessel (50);
- (ii) an elongated dipleg (24) traversing the reactor vessel sidewall (50b) and in flow communication with the catalyst stripper (51);
- (iii) a vapor outlet (26) conduit traversing the reactor vessel sidewall and attached to the plenum; and
- (iv) a stripper gas conduit (28) traversing the reactor vessel sidewall providing fluid communication between the catalyst stripper and the cylindrical barrel.



Compl. Specn : 16 pages

Drgns : 1 sheet.

Cl. : 119 E B C

180128

Int. Cl. : D 03 D 49/22.

"SPRING-LOADED BACK-REST FOR LOOMS"

Applicant : INDIAN JUTE INDUSTRIES RESEARCH ASSOCIATION of 17, Taratola Road, Calcutta-700088, India.

Inventor : DR. PRANAB KUMAR BHATTACHARYA.

Application No. : 953/Cal/1994 filed on 15th November, 1994.

Appropriate office for opposition proceedings (Rule 4 patent rule 1972) Patent Office Calcutta.

7 Claims

A back rest for a loom for reducing strain on warp yarns during weaving, said back rest comprising—

a pipe rotatably supported at its two ends by brackets; said brackets having means for fulcrum said brackets on the walls of the frame of said loom; and

adjustable extension springs attached at their one end to respective brackets, the other end of each said extension spring being anchorable on said loom frame, whereby as the tension in the warp yarn passing over said pipe increases, said pipe moves radially due to the fulcrum action against the action of said extension spring and thereby stress on the yarn is reduced.

Compl. Specn. : 7 pages

Drgns : Nil.

Cl. : 55 F

180129

Int. Cl. : C 12 N 15/00

"A METHOD OF PRODUCING VIRUS-LIKE PARTICLES (VLPs) OR VIRUS CORE-LIKE PARTICLES (CLPs) COMPRISING AT LEAST ONE NON-NATIVE PROTEIN."

Applicant : OXFORD UNIVERSITY of University Office, Wellington Square, Oxford OX1 2JD, England.

Inventor : POLLY ROY.

Application No. : 478/Cal/95 filed on 27th April, 1995.

(Divided out of No. 408/Cal/1993 antedated to 19th July, 1993.

Appropriate office for opposition proceedings (Rule 4 patent rule 1972) Patent Office Calcutta.

7 Claims

A method of producing proteins of virus-like particles (VLPs) or virus core-like particles (CLPs) comprising at least one non-native protein, which method comprises assembling said VLPs or CLPs from a plurality of different proteins containing first and second native proteins and a non-native protein, said non-native protein being a chimeric and comprising an amino acid sequence derived from a foreign protein and an amino acid sequence derived from one of said first and second native virus proteins.

Compl. Specn : 51 pages

Drgns : 21 sheets.

Cl. : 55 (E-4)

180130

Int. Cl. : A 61 K 35/78

"A PROCESS FOR PREPARING A NOVEL HERBAL COMPOSITION EFFECTIVE AGAINST 'KALA AZAR'"

Applicant; HAKIM GHULAM AHMAD SAMI,
& of C/o Late Hakim Md. Sami, Hakim
Inventor Tauhid Lane, Choti Sarayia Gunj,
Muzaffarpur, Pin-842001, (Bihar), India.

Application No. : 1278/Cal/1995 filed on 20th
October, 1995.

Appropriate office for opposition proceedings
(Rule 4 patent rule 1972) Patent Office Calcutta.

9 Claims

A process for preparing a novel herbal composition effective against Kala-azar which comprises in combination—

- a. chopping, shredding and pulverizing as and when necessary, herbs selected from
 - (i) 6.87 to 8.6% by wt. of Afsaneatin (Artemisia absinthum Linn),
 - (ii) 3.44 to 4.01% by wt. of Baranjasif (Artemisia vulgaris Linn),
 - (iii) 17.20 to 21.13% by wt. of Khasniz (Coriander),
 - (iv) 17.20 to 21.13% by wt. of Nim Guruj (Tinospora cardifolia),
 - (v) 3.44 to 4.91% by wt. of Bekh Kasni (Bistaria integrifolia),
 - (vi) 6.87 to 8.5% by wt. of Nilofur (Water Lily),
 - (vii) 6.87 to 8.6% by wt. of Burg Gauzanba (Borage officinalis Linn),
 - (viii) 3.44 to 4.91% by wt. of Khaksi (Sisimbrifolia),
 - (ix) 6.87 to 8.6 by wt. of Gule Surkh (Rosa Damascusmill) and
 - (x) 6.87 to 8.6% by wt. of Tukhm Kasus/, Daddor (Cuscuta reflexa);
- b. Washing ingredients (iv), (v) and (vii) mentioned at (a) with distilled water;
- c. Cleaning ingredients (vi) and (ix) with water and mixing with ingredients mentioned at (b);
- d. Cleaning and washing the remaining ingredients followed by filling the entire cleaned lot to distilled water kept in a chemically inert metallic or enamelled pot;

e. adding a halogen-containing compound to the mixture of herbs obtained at (d) and allowed to soak for a period of around 12 hours;

f. boiling the soaked herbs for a period of around 1 hour to obtain an extract thereof;

g. bringing metallic antimony into indirect contact with the herbal extract obtained at (f) and maintaining such contact for a period of around 1 hour;

h. discontinuing boiling when the extract is nearly half the original volume, followed by filtration and addition of an inorganic nitro compound thereto;

i. boiling the mixture after addition of predetermined amount of sweetening material and, if desired;

j. adding an alkaline material to the composition from step (i) to obtain the desired therapeutic composition, wherein the ingredients of the composition are such as herein described which are used in proportions as given herein above.

Compl. Specn : 17 pages

Drgns : Nil.

Ind. Cl. : 119 E

180131

Int. Cl. 4 ; D 03 J 1/16

"MACHINE FOR THE AUTOMATIC DRAWING-IN OF WARP THREADS INTO THE HARNESS OF A WEAVING MACHINE FROM A WARP-THREAD LAYER"

Applicant : Zellweger Uster Ag., of Willstrasse 11,
CH 8610 Uster, SWITZERLAND.

Inventors ; 1. HERMANN EGLSFER
2. HANS WILHELM

Application No. : 586/MAS/91 filed on 2nd Aug.,
1991.

Appropriate office for opposition proceedings
(Rule 4, Patents Rules, 1972). Patent Office, Chennai
Branch.

14 Claims

Machine for the automatic drawing-in of warp-threads into the harness of a weaving machine from a warp-thread layer, comprising selection means for selecting the individual warp threads of the warp-thread layer, the said selecting means has a separating member and presenting means for presenting the selected warp-threads to a drawing-in member, characterized in that the presenting means (PR) for presenting the selected warp-threads (KF) comprises a plurality of revolving (or circulating) transport clamps (31) simultaneously conveying several warp threads in a staggered manner (or configuration

or position) to a receiving position to be received by the drawing-in member and a control means (17, 18, 21, 32) for tensioning (or controlling) the warp-threads to be drawn-in.

(Compl : 18 Pages,

Drawgs. : 4 Sheets)

Ind. Cl. : 119 E

180132

Int. Cl.4 : D 03 J 1/16

"THREAD MONITOR FOR DETECTING THE PASSAGE OF THREAD MOVING IN THE TRANSVERSE DIRECTION"

Applicant ; Zellweger Uster Ag, Wilstrasse 11, CH-8610 Uster Switzerland, a Swiss company.

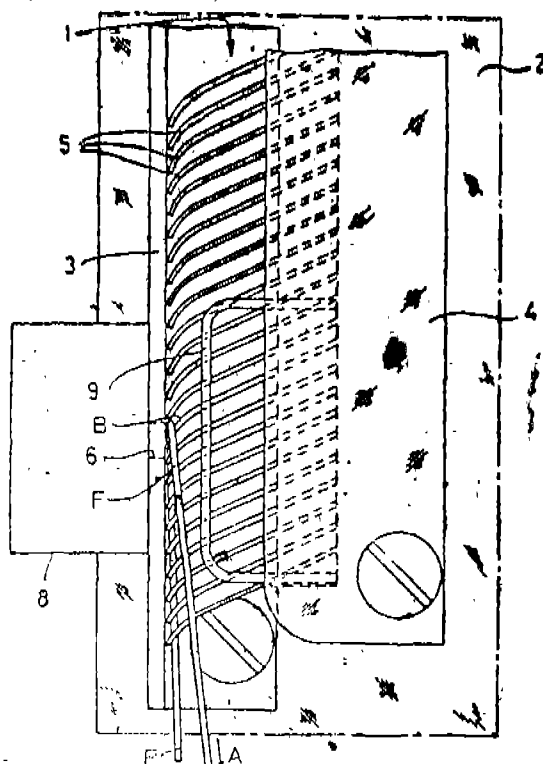
Inventors ; 1. Peter Mueller

Application No. 587/MAS/91 filed on 2nd Aug., 1991.

Appropriate office for opposition proceedings (Rule 4 - Patents Rules, 1972) Patent Office, Chennai Branch.

10 Claims

Thread monitor for detecting the passage of a thread moving in the transverse direction, having a pivoting member which is actuated by the thread and a sensor monitoring the actuation of this pivoting member characterised in that the pivoting member (B) is placed in the path of movement of said thread and adjacent to a sensor (7), whereas the pivoting member has a rest position and deflected positions to be reached when the pivoting member is deflected by the thread and whereas the pivoting member in its rest position is biased towards said sensor.



(Com. 11 Pages ;

Drawgs. 1 sheet)

Ind. Cl. ; 119 B

180133

Int. Cl.4 ; D 03 J 1/16

"DEVICE FOR THE HANDLING OF DROP WIRES IN A WARP YARN DRAWING-IN MACHINE"

Applicant ; Zellweger Uster AG, of Wilstrasse 11, CH-8610 Uster, Switzerland.

Inventors ; 1. SILVIO JAEGER,
2. HANS WILHELM.

Application No. 588/MAS/91 filed on 2nd Aug, 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Chennai Branch.

15 Claims

Device for the handling of drop wires in a warp-yarn drawing-in machine after the warp-yarn draw-in has taken place comprising rail-like carrier members for lining up of the drop wires and displacing means for displacing the drop wires along said carrier members, wherein said carrier members have an upper edge equipped with a rotatable and threaded spindle on which the drop-wires are lined up and wherein the drop wires are moved by the rotation of the spindle.

(Com. 17 Pages ,

Drawgs. ; 4 Sheets

Ind. Cl. ; 119 B

180134

Int. Cl.4 ; D 03 J 1/16

"DEVICE FOR DRAWING WARP YARNS INTO A WEAVING REED"

Applicant ; ZELLWEGFR USTER AG. of Wilstrasse 11 CH-8610 Uster, Switzerland a Swiss Company.

Inventors ; 1. STEFAN WEBER
2. DANIEL MORGENTHAER .

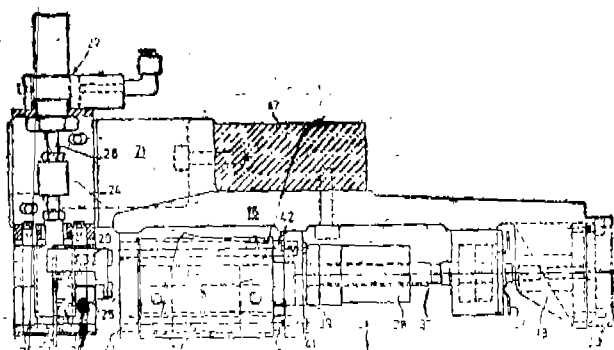
Application No. 589/MAS/91 filed on 2nd Aug., 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Chennai Branch.

15 Claims

A device for drawing warp yarns into a weaving reed, comprising a reed carriage moveable along a path extending in the lengthwise direction of a weaving reed attached thereto; a drawing-in station located adjacent a portion of said path, said drawing-in station

having a reed opener mounted for movement in a direction transverse to said lengthwise direction of a weaving reed attached to said reed carriage and means for moving said reed opener to alternately project a portion of said reed opener into a gap between adjacent dents of said reed and withdraw said portion from said reed, a driver moveable to and fro in a direction parallel to said lengthwise direction of said weaving reed through a distance corresponding approximately to the spacing of adjacent dents of said reed; a coupling actuatable alternately to connect said driver to said reed carriage so that said reed may be moved relative to said reed drawing-in station to position a new reed gap for reception of said reed opener and to free said reed carriage from said driver to permit movement of said driver in the opposite direction while said reed opener is position in a reed gap and to permit fine adjustment of the position of said reed relative to said reed opener.



(Com. 19 Pages,

Drawgs. ; 5 Sheets)

Ind. Class - 50 E₁

180135

Int' Cl⁴ : F : 25 B 15/00

"AN ABSORPTION APPARATUS FOR COOLING FLUID SUCH AS AIR

Applicant & Inventor : ROBERTO GIANFRANCESCO, AN ITALIAN CITIZEN, OF LARGO LAMARMORA 3, 20089, SESTO SAN GIOVANNI, MILANO ITALY.

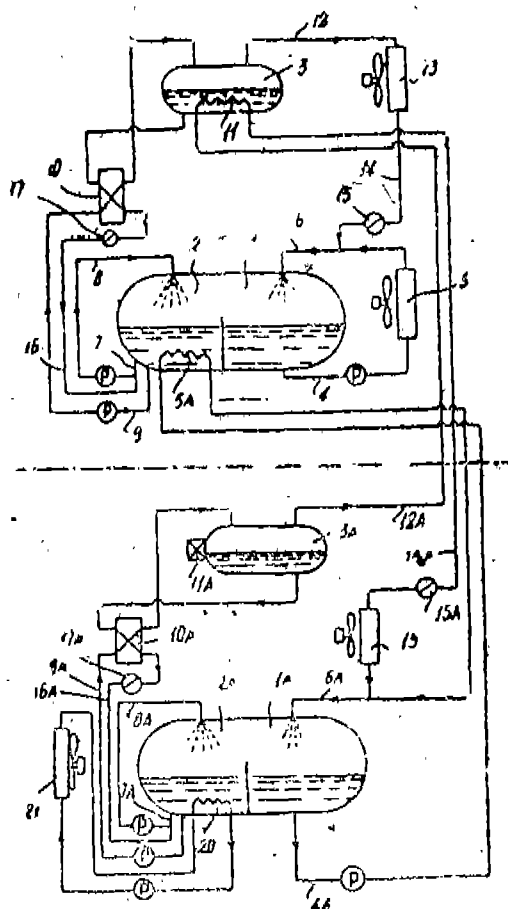
Application No. 595/MAS/91 dated August 6, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Chennai Branch.

4 Claims

An absorption apparatus for cooling fluid such as air comprising a first absorption cooling device (1,2,3) and a second absorption cooling device (1A, 2A, 3A), each said cooling devices having mutually communicating evaporator (1, 1A), absorber (2, 2A) and generator (3, 3A), the said evaporators (1, 1A) containing water and the said absorbers (2, 2A) containing a steam absorbing liquid such as herein described; the said evaporators (1, 1A) and absorbers (2, 2A) being maintained at a pressure lower than the pressure in the corresponding generators (3, 3A); water circulating paths with heat exchangers (5, 5A) being provided for circulating water withdrawn from the evaporators (1, 1A) through the heat exchangers (5, 5A) back into the respective evaporators (1, 1A), the heat exchanger (5) of the first cooling device being in thermal contact with the air to be cooled and the heat exchanger (5A) of the second cooling device being in thermal contact with the steam absorbent liquid in the absorber (2) of the first cooling device for cooling the absorbent liquid therein; a heat exchanger (21) being provided for the absorber (2A) of the second cooling device for cooling the absorbent liquid therein; steam absorbent liquid circulating paths with heat exchangers (10, 10A) being provided for circulating part of the steam absorbent liquid withdrawn from the respective absorbers (2, 2A) and pass it through the said heat exchangers (10, 10A), the respective generators (3, 3A) and returning to the respective absorbers (2, 2A) transferring heat from the absorbent liquid returning from the respective generators (3, 3A) to the absorbent liquid withdrawn from the respective absorbers (2, 2A); a steam condensation path having a steam condensation heat exchanger (13) being provided for passing the steam withdrawn from the generator (3) of the first cooling device to condense and deliver the condensed water to the evaporator (1) of the first cooling device; a steam condensation path having a steam condensation heat exchanger (11) being provided for condensing and transferring heat from the steam withdrawn from the generator (3A) of the second cooling device to the steam absorbent liquid in the generator (3) of the first cooling device and deliver the condensed water to the evaporator (1A) of the second cooling device; and a heating means (11A) such as a burner is provided to the generator (3A) to produce superheated steam wherein the heat exchanger (21) for cooling the absorbent liquid of the second cooling device and the heat exchanger (13) for condensing the steam withdrawn from the generator (3) of the first cooling device are located for the ambient air steam external to the apparatus to come first in contact with the said heat exchanger (21) for cooling the absorbent liquid and then in

contact with the said heat exchanger (13) for condensing the steam.



(Com.—18 pages,

Drwg.—1 sheet)

Ind. Class—53-A & 113-I

180136

Int. Cl.⁴—B 62 J 6/0)

BRAKE LIGHT DEVICE FOR BYCYCLE AND BYCYCLE FITTED WITH THE SAME

Applicant : TUBE INVESTMENTS OF INDIA LTD., AN INDIAN COMPANY OF "TIAM HOUSE" 28, RAJAJI SALAI, CHENNAI-600001, TAMIL NADU, INDIA.

Inventor : MAHARAJAN
DAKSHINAMOORTHY

Application No. : 597 MAS/91 dated August 7, 1991.

Complete Specification left : October 30, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

A brake light device for a bicycle, comprising a lamp assembly mounted on the rear of the bicycle, a source for supplying electrical power to said lamp

assembly and a switching means for operating said lamp assembly, said switching means comprising a spring loaded bellow having an opening at each end thereof to receive the brake wire therethrough, one end of said bellow being provided with an insulator bush having a terminal tag and the other end thereof being provided with a metallic bush having screw means to securely fix said bush to the brake wire, such that as the brake is applied the brake wire pulls up said metallic bush with the spring and brings it in electrical contact with said terminal tag thereby completing the electrical and causing the lamp assembly to glow and as the brake is released said metallic bush with the spring returns to its original position thereby disconnecting the electrical circuit.

(Prov.—5 Pages, Com.—7 pages, Drwgs.—3 sheet)

Ind. Class : 33—A & E

180137

Int. Cl.⁴ : B 22 D 11/07

FEED DEVICE FOR DEPOSITING A LAYER OF A POWDERED OR GRANULAR MATERIAL

Applicants : SOLLAC, OF IMMEUBLE ELY-SEES-LA-DEFENSE 29, LE PARVIS, 92800 PUTEAUX, FRANCE, A FRENCH COMPANY and

TECHMETAL, OF DOMAINE DE LIRSID, VOIE ROMAINE 57210, MAIZIERES-LES-METZ, FRANCE, A FRENCH COMPANY

Inventors :

- (1) GHILSAIN HUBERT,
- (2) ANDRE KLEIN,
- (3) PATRICK OMINETTI,
- (4) RAYMOND PILLOY,

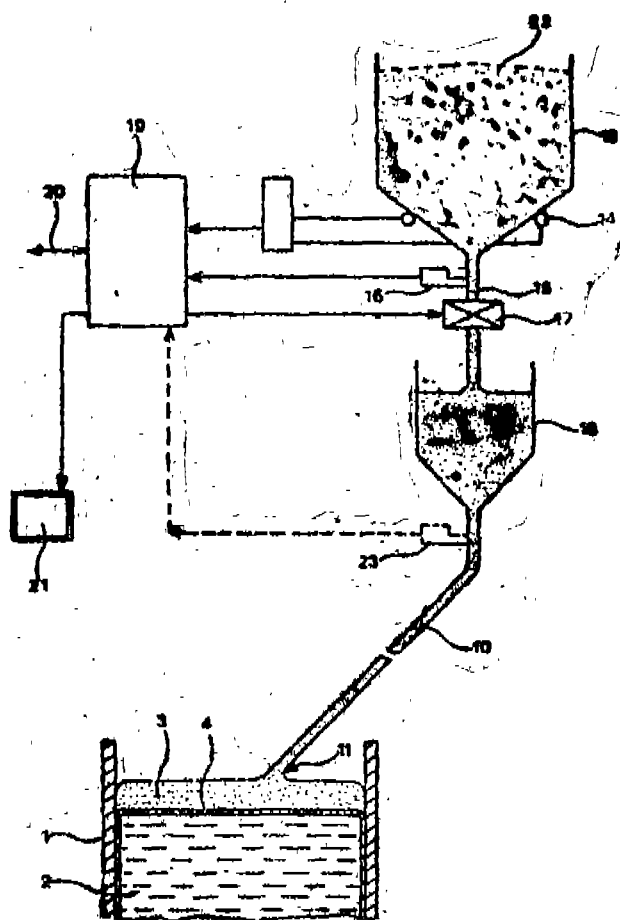
Application No. 609/MAS/91 Dated August 12, 1991.

Appropriate Office for opposition Proceedings (Rules 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

Feed device for depositing a layer of a powdered or granular material on the surface of a liquid metal contained in a continuous casting mould comprising a feed pipe having a permanently open discharge end located above said surface of the metal at a height corresponding approximately to the required thickness of the layer of said material, and means for permanently feeding said materials in said

pipe wherein said device comprises an upper principal hopper provided with discharge piping having a lower end which extends into a lower secondary hopper which opens into the feed pipe, a closing valve and a sensor of the flow of the material which are placed on the discharge piping, means for controlling the valve as a function of indications delivered by the flow sensor, means for weighting the upper hopper, calculating means for determining the flow of the material as a function of the time elapsed between two successive closures or openings of said valve, and of the quantity of material flowing from the upper hopper into the lower hopper.



(Com.—16 Pages)

Ind. Cl.⁴ : 129 G, J

180138

Int-Cl⁴ : B 21 J 9/00

APPARATUS FOR REPLACING PRESSING DIES IN UP SETTING PRESS.

Applicant; SMS SCHLOEMANN SIEMAG AKTIENGESELLSCHAFT OF Eduard-Schloemann-strasse 44000 Dusseldorf 1 Federal Republic of Germany, a German Company.

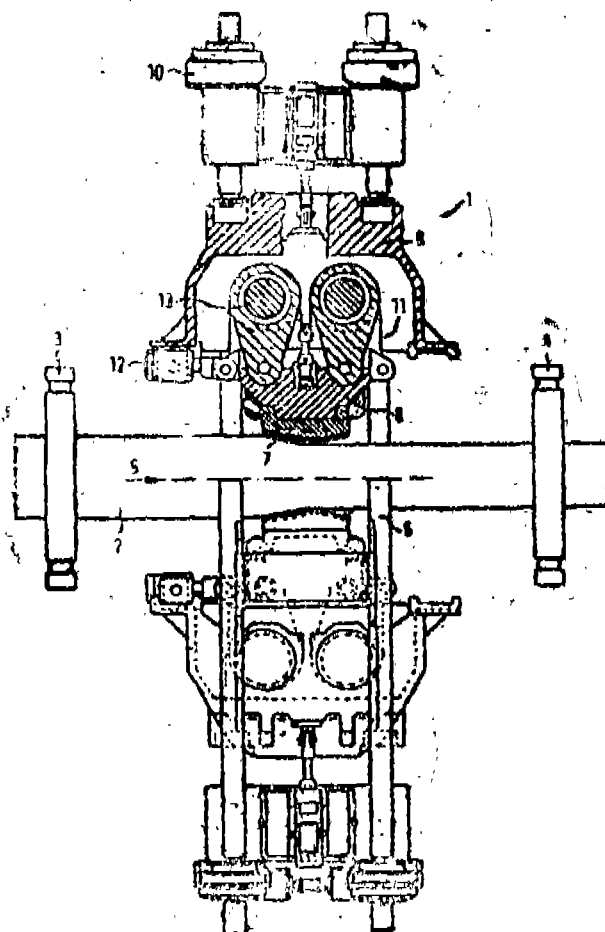
Inventor : Gerhard Heitze

Application No. 687/MAS/91, Filed on Dated 11-09-1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch.

11 Claims

Apparatus for replacing pressing dies in an up-setting press used for width reduction of rolled material, such as the reduction of a slab width in a hot rolled wide strip shaping train, the said apparatus comprising a die carrier for each pressing die with a pair of the pressing dies facing one another in operative positions on opposite sides of a slab to be width-reduced, a drive system for moving the die carriers in a direction for reducing the width of the slab in a horizontal stand between horizontal stand beams, wherein the improvement comprises at least one vertically extending hoisting frame (20) with a hoisting drive (21), a support mounting (22) on said hoisting frame, said support mounting (22) arranged to receive and hold a pressing die, a displaceable trolley (19) supporting said hoisting frame (20), a displaceable carrier trolley (23) spaced from the pressing die in the operative position there of, said carrier trolley (23) having at least one depositing location (24, 25) for receiving a pressing die from or supplying a pressing die to said support mounting.



(Com-19 Pages — Drawgs. 4 Sheets)

Int. Cl.⁴—C 10 G 47/02

180139

Ind. Cl.—56 B

"A PROCESS FOR PREPARING LOW POUR POINT MIDDLE DISTILLATE HYDROCARBONS"

Applicant : CHEVRON RESEARCH AND TECHNOLOGY COMPANY A COMPANY DULY ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, OF 555 MARKET STREET, SAN FRANCISCO, CALIFORNIA, USA.

Inventor : STEPHEN J MILLER.

Application No. 643/MAS/91 Filed on 28th Aug., 1991.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Chennai Branch.

26 Claims

A process for preparing low pour point middle distillate hydrocarbons by hydrocracking and isomerizing a denitrogenated hydrocarbonaceous feedstock wherein at least 90% of said feedstock has a boiling point above 600°F, the said process comprising the steps of :

- (a) contacting under hydrocracking conditions said hydrocarbonaceous feedstock with a large-pore hydrocracking catalyst and and isomerizing catalyst comprising a compound selected from a group consisting of an intermediate pore size silicoaluminophosphate molecular sieve or nonzeolitic molecular sieve containing AlO₂ and PO₂ tetrahedral units of mixtures thereof, and at least one hydrogenation component, and
- (b) recovering a hydrocarbonaceous effluent wherein more than 40% by volume of said effluent boils above 300° F and below 725° F and has a pour point below 20° F.

(Comp.—42 pages;

Drwgs.—2 Sheets)

Ind. Cl. : 172 C 3

180140

Int. Cl⁴ : D 01 G 9/20**"A GRID FOR AN OPENING ROLLER OR LICKER-IN ROLLER OF SPINNING MACHINES"**

Applicant : MASCHINENFABRIK RIETER AG, a body corporate organised under the laws of Switzerland of Ch-8406 Winterthur, SWITZERLAND.

Inventors : 1. ROBERT DEMUTH

2. JURGFASS

3. LUKAS HILTBRUNNER

Application No. : 685/MAS/1991 Filed on 11-9-1991

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules 1972), Patent Office, Chennai Branch.

16 Claims

A grid for an opening roller (7, 70) or licker-in roller of spinning machines, such as cleaning machines (1) and carding machines (7) used in spinning mill, the said grid comprising number of grid bars in a grid frame (9a) provided around the periphery (44) of the opening roller (7, 70), the said grid bars being single grid bar modules (M1, M2, M3, M4) each module doing the function of fibre guiding and/or opening and/or cleaning and they are fitted in the grid frame (9a) in an alterable sequence.

(Com. Specn. : 24 Pages

Drwgs ; 6 sheets)

Ind. Cl. : 33 A

180141

Int. Cl.⁴ : B 22 D 13/00**"A NOVEL PROCESS AND A DEVICE FOR PRODUCING RAPIDLY SOLIDIFIED SEAMLESS TUBES"**

Applicant ; Dr. S. Ramesh Babu, S/o. S. Soma Sundara Rao, 23, "Vinayaka" 8th Main, 7th Cross, Bandappa Garden Muthyllanagar, P. O. Gokul, Bangalore-560054 an Indian Citizen.

Inventor : Dr. S. RAMESH BABU,

Application No. : 736/MAS/91 filed on 30th Sep., 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

11 Claims

A novel device for producing rapidly solidified seamless tubes which comprises of a jet water cooled copper die (3) rotated along its horizontal axis by means of a variable speed D.C. Motor (1) through a double pulley and belt high speed arrangement (2), a melting cum pouring device (4), a furnace (5) aligned inline with the axis of the die and a manually operated long steel rod with a bar handle (6) positioned over guide rollers used for positioning the molting device, either into or out of the furnace and also for delivering the molten metal into the die.

(Com. : 16 pages

Drwgs : 1 sheet)

Ind. Cl. : 40 A1, 2

180142

Int. Cl. 4 : B 01 J-19/00

"DEVICE FOR HOLDING CATALYST IN A RADIAL FLOW REACTOR"

Applicant: NAGAOKA INTERNATIONAL CORPORATION a Japanese joint stock company, located at 2-2-91, Mokuzaidori, Miharamachi, Minami Kawachi-gun, Osaka-fu, Japan,

Inventor: 1, Tadayoshi Nagaoka

Application No. : 739/MAS/91 filed on 30th Sep. 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

11 Claims

A device for holding catalyst in a radial flow reactor having a liquid inlet and liquid outlet comprising a plurality of catalyst containers, each of which is a segment of cylinder divided in its axial plane, each of the said segment being provided with a first screen on the liquid inlet side and a second screen on the liquid outlet side, the cross sectional area by each of the said segment being less than that of any opening provided on the radial flow reactor, the said plurality of segments being assembled in the form of a cylindrical catalyst bed within the said radial flow reactor.

(Com. 28 Pages; Drawgs, 9 sheets)

Ind. Cl: 185-C

180143

Int. Cl. 4 : A 23 F 3/06

"A PROCESS FOR TREATING BLACK TEA LEAVES"

Applicant: Societe Des Produits Nestle S.A. a Swiss body corporate of Vevey-1800 Switzerland; Case Postale 353.

Inventors: (1) Richard Tien-Szu LIU,
(2) John C. Proudley

Application No. : 742/MAS/91 filed on 1st Oct., 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

A process for treating black tea leaves to reduce turbidity in aqueous beverage extracts obtained from the tea leaves, the said process comprising the steps of (i) moistening the tea leaves to provide moistened tea leaves having a moisture content from 13% to 70% by weight of dry tea solids; and (ii) contacting the moistened tea leaves with an oxidizing agent selected from oxygen gas, oxygen-containing gases, air, air enriched with oxygen, ozone, and ozone-containing gases, at a temperature of 100°C to 130°C and at a pressure greater than the water vapour pressure at the temperature, the oxidizing agent being present in an amount of 0.3 moles O₂/kg to 2.5 moles O₂/kg of dry tea solids to oxidize polyphenolic compounds contained in the moist leaves.

(Com. 29 Pages)

Ind. Cl. : 64 B 1

180144

Int. Cl. 4 : H 01 R-13/00, 13/39

"A WIRE CONNECTOR FOR CONNECTING MULTIPLE WIRES"

Applicant: Minnesota Mining and Manufacturing Company a corporation of the state of Delaware, USA, of 3M Center, Saint Paul, Minnesota 55144-1000, USA.

Inventor : 1, George Jack Knox.

Application No. : 746/MAS/91 filed on 3rd Oct., 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Chennai Branch.

10 Claims

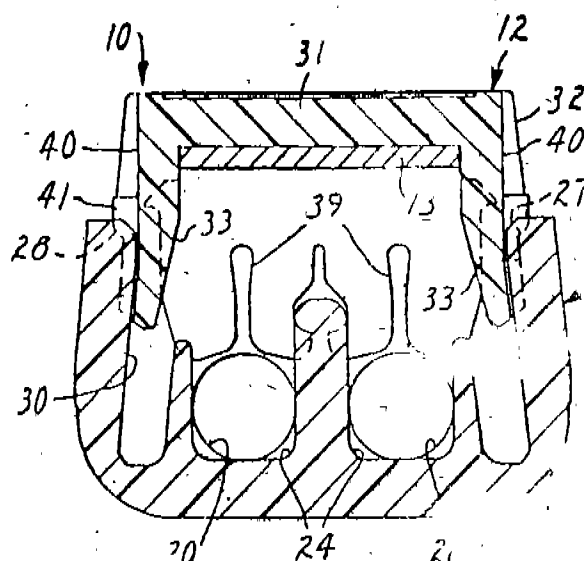
A wire connector for connecting multiple wires comprising:

a base member having a plurality of elongate side-by-side wire-receiving channels leading through a throat portion into a truncated conical cavity, said base member having at least one groove extending transversely across the wire-receiving channels in the bottom of said cavity, said base member having wall members defining said cavity, and enclosing said wire-receiving channels, which wall members have inner and outer surfaces, with the walls of the cavity diverging from an opening into the cavity toward the bottom thereof,

a cap, fitting in the cavity of the base member, having an end wall and depending side wall members diverging from the end wall, said side wall members having two legs extending beyond the free edges of said side wall members at peripherally spaced locations, and

A wire connecting member positioned against the interior surface of said end wall of said cap,

said legs of said cap diverging from the free edges of the side wall members and being shaped to fit within the cavity when the cap is placed on the base member, said wall members of one of the base member and cap being formed with at least one key extending generally radially therefrom and the other of said base member and cap being formed with a keyway, said key being of uniform cross-section along the length thereof which is that of a trapezoid and the keyway having a uniform cross-section to form a cooperating truncated V-shaped groove, such that the converging walls of the truncated groove contact the converging walls of the key and that a space exists between the bottom of the keyway and the end of the key,



(Com. 19 Pages: Drawgs, 3 sheets)

Ind. Class: 206-B

180145

9 Claims

Int. Cl.4-H 01 R 4/22

A CROSS CONNECT SYSTEM FOR USE IN TELECOMMUNICATION SYSTEMS.

Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY, A CORPORATION EXISTING UNDER THE LAWS OF DELAWARE, OF 3M CENTER, SAINT PAUL, MINNESOTA 55144-1000, U.S.A.

Inventors: (1) GEORGE JACK KNOX,
(2) WILLIAM DONALD McKITTRICK,

Application No. 747/MAS/91 dated October, 3, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

12 Claims

A cross connect system for use in telecommunications system for connecting one pair of wires to other pairs of wires, said system comprising a terminal block, said terminal system comprising a base having means for supporting a plurality of wires transversely thereof, a cover adapted to fit on the base, said cover having a plurality of terminal contacts for making connection to wires supported by the base and for enclosing the ends of the wires in the base, said cover having apertures affording access to said contacts, and said cover having location means about said apertures for polarizing pairs of said apertures; and a plurality of plugs for making contact with said contacts in said terminal block, said plugs comprising an insulative body, said body having opposite ends and a hinged cap supported on one end, a splicing contact supported in said body with opposite end portions, one end portion of said contact being adapted to make electrical connection with said terminal contacts and the other end being adapted to make electrical connection to a jumper wire; said cap having means for facilitating connection between a said jumper wire and said other end of said splicing contact, the other end of said body having means for mating with said location means of said cover for positioning said one end portion of said splicing contact in a said aperture to make electrical contact to said terminal contact.

(Com. 21 pages; Drawgs. 6 sheets).

Ind. Cl.: 129J; 67C

180146

Int. Cl.4: B 21 B 13/14

"AN APPARATUS FOR CONTROLLING THE CROWN ADJUSTMENT OF COLD ROLLING CLUSTER STRIP MILLS"

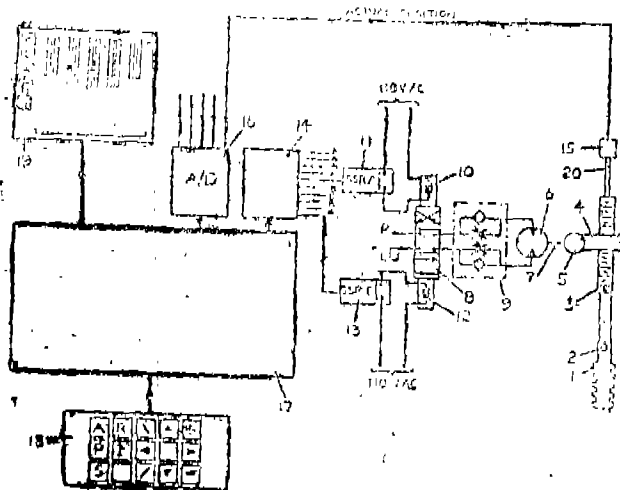
Applicant: T. SENDZIMIR INC., OF 269 BROOKSIDE ROAD, WATERBURY, CONNECTICUT 06721, USA, A US COMPANY

Inventor: 1, MICHAEL G. SENDZIMIR, USA,

Application No.: 755/MAS/91 filed on 7th Oct, 1991,

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch,

An apparatus for controlling the crown adjustment of cold rolling cluster strip mills of the tilt mode and the crown mode having individual drives on a plurality of backing shafts for adjusting the roll gap in each line with each roll saddle, computer-controlled means for controlling the simultaneous movement of at least two of the said drives in unison to position the drives according to at least one predetermined equation resulting in variable profile forms of the roll gap and adjustment means for adjusting and preserving the positions of selected individual drives.



(Com. 41 Pages; Drawgs. 7 sheets)

Ind. Cl.: 150A, G

180147

Int. Cl.4: F 16 L 55/00, 58/00

"A METHOD OF MAKING REINFORCED EQUIPMENT DETAIL OR COMPONENTS WHICH ARE SUBJECTED TO ABRASION WEAR"

APPLICANT ELKEM A/S OF NYTALSVEIEN 28, 0483 OSLO 4, A NORWAY COMPANY INCORPORATED UNDER THE LAWS OF NORWAY,

Inventors: (1) HANS H. SCHEIDERUP.
(2) KNUT H. JOHANSEN.
(3) OYVIND LARSEN.

Application No. 756/MAS/91 filed on 7th Oct., 1991.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch,

7 Claims

A method of making reinforced equipment detail or component (1) which are subjected to abrasion wear, characterised by affixing a casing (4) to the outside surface of the equipment detail or component in the area (3) which is subjected to abrasion wear and casting a wear resistant concrete material (6) into the space between the casing (4) and the surface of the equipment detail or the component (1).

(Com. 10 Pages; Drawgs. 2 sheets)

Ind. Cl: 37B

180148

Int. Cl⁴: B 04 C 5/081**"A CENTRIFUGAL SEPARATOR FOR PURIFYING A STREAM OF HIGH TEMPERATURE GAS".**

Applicant: FOSTER WHEELER ENERGIA OY, OF SENTNERIKUJA 2,00440 HELSINKI FINLAND, A FINNISH BODY CORPORATE.

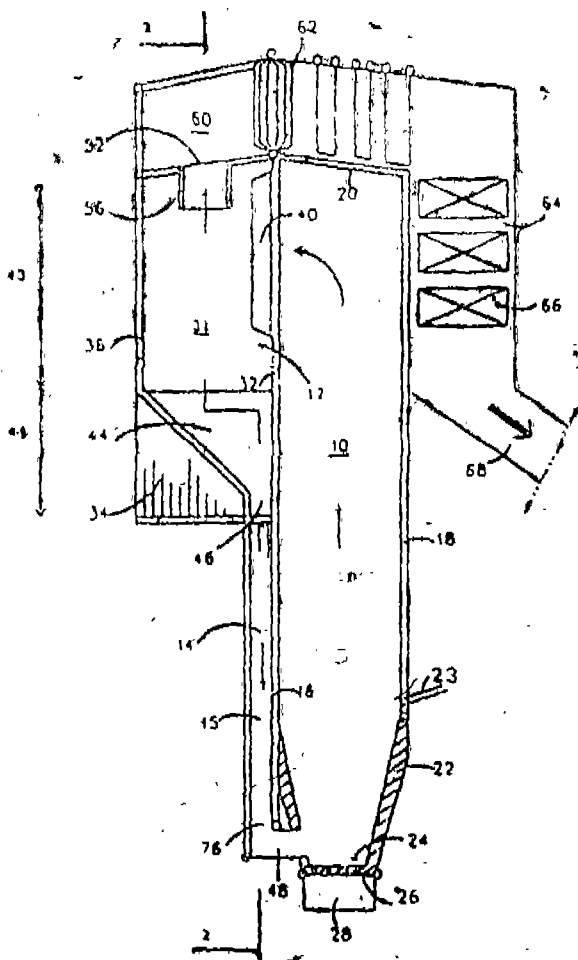
Inventors: (1) Timo HYPPANEN
(2) Reijo KUIVALAINEN
(3) Harry OLLILA

Application No. 757/MAS/1991 Filed on 8th October, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Chennai Branch.

17 Claims

A centrifugal separator for purifying stream of high temperature gas by separating solids particles entrained therein, the said separator comprising a vertical vortex chamber which has walls defining an interior gas space, and upper section, and a bottom section; at least one inlet for gases to be purified, disposed in the upper section of the vortex chamber; at least one outlet for the separated particles, disposed in the lower section of the vortex chamber; said inlet, outlets and vortex chamber defining at least one vertical gas vortex in the vortex chamber; said vortex chamber walls being distinctly non-cylindrical, and the cross-section of said gas space being distinctly non-circular, having a circularity greater than 1; the said circularity being defined as the ratio of the circumference of a cross-section of space to the circumference of the greatest circle contained in the cross section of the space; and at least two adjacently disposed vortex chambers, one wall of each of said vortex chambers being formed by a single tube panel connecting the vortex chambers.



(Com. Specn. 31 pages Drawgs 8 sheets)

9-407 GH/97

Ind. Cl: 32B

180149

Int. Cl⁴: C 07 C 2/00**"A PROCESS FOR PRODUCING LINEAR α -OLEFIN"**

Applicant: IDEMITSU PETROCHEMICAL CO., LTD, OF 1-1, MARUNOUCHI 3- CHOME, CHIYODA-KU, TOKYO, JAPAN.

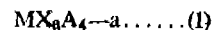
Inventors: (1) YASUSHI SHIRAKI
(2) TAKAO TAMURA

Application No. 764/MAS/91 Filed on 10th October, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

2 Claims

A process for producing a linear α -olefin which contains olefin having 4 to 18 carbon atoms at 50% or more by the oligomerization of ethylene characterized in that the oligomerization is carried out in the presence of a catalyst composed of (A) zirconium halide represented by the formula (I)



where M denotes a zirconium atom; each of X and A denotes a chlorine atom, bromine atom, or iodine atom where X and A may be the same or different to each other; and a denotes zero or an integer of 1 to 4, (B) a mixture of an organoaluminum compound represented by the formula (II),



Where R denotes an alkyl group having 1 to 20 carbon atoms; Q denotes a chlorine atom, bromine atom, or iodine atom; c and d are numbers selected from 1, 1.5 and 2, with c+d=3 and an organoaluminum compound represented by the formula (III),



Where R' denotes an alkyl group having 1 to 20 carbon atoms, and (C) at least an alcohol selected from the group consisting of methanol, ethanol and propanol,

(Com. Specn. 18 pages Drawgs.)

Ind. Class-101-F & 19-C

180150

Int. Cl⁴: E 02 B 9/08**AN APPARATUS FOR EXTRACTING POWER FROM WAVES ON THE SEA.**

Applicants: SECRETARY OF STATE FOR TRADE AND INDUSTRY, IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, OF 1, PALACE STREET, LONDON SW1E 5HE, UNITED KINGDOM.

Inventor: ALAN ARTHUR WELLS.

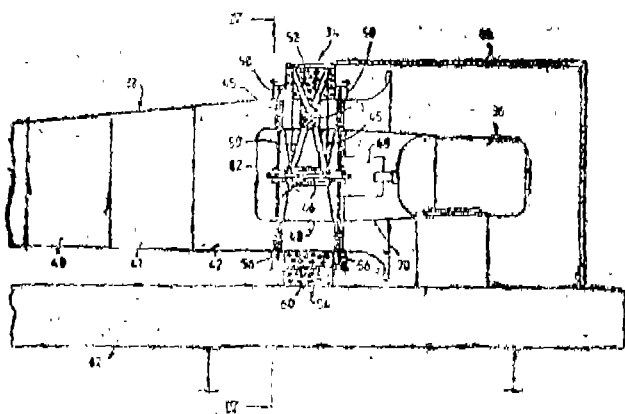
Application No. 767/MAS/91 dated October 11, 1991.

Convention date October 18, 1990; (No. 90/22713-3; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

11 Claims

An apparatus for extracting power from waves on the sea, comprising means defining a chamber communicating at its lower part with the sea so that waves on the sea cause the water level within the chamber to go up and down, a duct communicating with an upper part of the chamber so that the said movement of the water level causes air to flow up and fro through the duct, and turbine means exposed to the said flow of air, the said turbine means comprising two turbines on the same shaft, the said air flow passing through the two turbines in series, each turbine comprising a hub portion, a plurality of straight, aerofoil-section blades extending in a substantially radial plane from the hub portion, and a circumferential ring fixed to the outer ends of the blades concentric with the hub portion, the ring being sufficiently massive to act as a flywheel and having a greater moment of inertia than that of the hub portion and the blades.



(Com.-15 pages; Drwgs.-3 sheets),

Ind. Cl.: 63B [LVII (i)]

180151

Int. Cl.: H 02 K 21/00

"AN ELECTRIC MOTOR HAVING A HIGH TORQUE TO INERTIA/SIZE RATIO".

Applicant & Inventor: HASMUKHBHAI BALDEVBHAI PATEL, 1, PUSPA FLAT, DAMUBHAI COLONY, OPP. ANJALI CINEMA, AHMEDABAD-380 007, GUJARAT, INDIA.

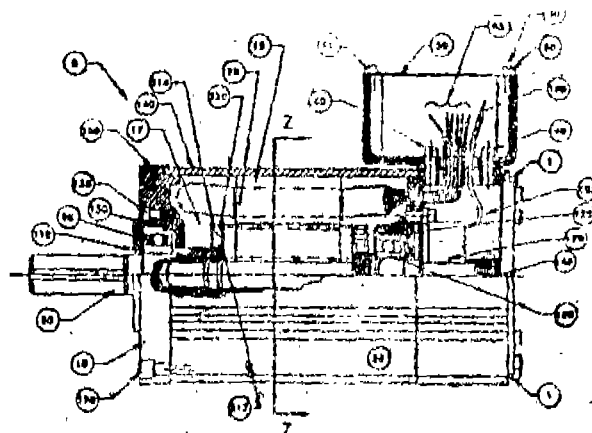
Application No.: 45/BOM/1994 Filed Feb. 8, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Mumbai-400 013,

17 Claims

An electric motor having a high torque to inertia/size ratio comprising of an outer housing with terminal box encasing the stator of the said motor, and a segmented rotor having an outer cylindrical peripheral surface, a central rotor shaft, at least two retainers securely mounted on said shaft in spaced apart relationship the said segmented rotor consisting of a plurality of magnetically conductive segments arrayed around said shaft inbetween the said retainers with each of said segments spanning a circumferential sector of said cylindrical surface, each of said segments having an opening extending there through in generally parallel relationship to said shaft, each of said openings having a cross section being elongated radially of the respective segment relative to the width of the opening, non magnetic securing bars extending through each of said openings and being sup-

ported by said retainers for supporting the said segments in predetermined positions in the said rotor, a plurality of permanent magnets being radially provided and securely held in between each adjacent pair of said segments of said array for providing magnetic flux through each of the respective adjacent segments for linking through the stator disposed around said cylindrical peripheral surface of the rotor.



Complete Specification-33 Pages, Drawings-6 Sheets.

Ind. Cl.: 50 B Gr [VII (i)]
& 201D, Gr [II (4)]

180152

Int. Cl.: F 28 D-7/00

AN ONLINE SYSTEM FOR PURIFYING AND COOLING WATER.

Applicants: EUREKA FORBES LIMITED, FORBES BUILDING, 4TH FLOOR, CHARANJIT RAI MARG, FORT, MUMBAI-400 001, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor: MR SUNDEEP SAKSENA.

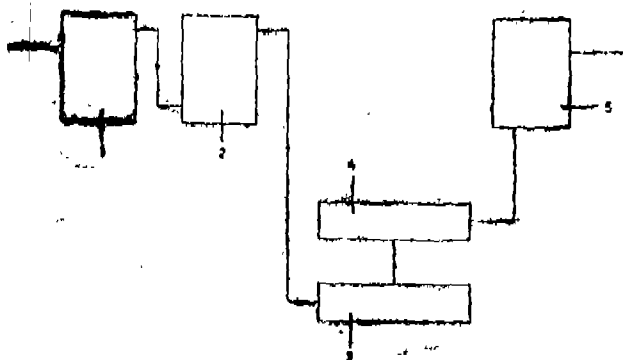
PATENT APPLICATION NO. 46/BOM/94 FILED ON 10-02-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Mumbai-400 013,

7 Claims

An online system for purifying and cooling water consisting of a housing provided with at least one filter candle¹ and at least one deodorising and decolourising activated carbon cartridge² sequentially connected to a heat exchanger³ comprising a refrigeration system including a compressor, condenser and thermostat, UV radiation means⁵ connected to the heat exchanger³ through a solenoid valve,⁴ the UV radiation means comprising a UV lamp located in a quartz glass tube which is housed in a body, a photo resistor located in the body and being sensitive to UV radiation to monitor the purity of water and status indicator lamps, the said

system also being provided with inlet means connectable to water supply source and an outlet means for pure cooled water.



Complete Specification: 11 Pages Drawings-4 Sheets.

Ind. Cl. : 97 Z B, F [LIX]

180153

Int. Cl. : H 05 B 7/109; 7/152

ELECTRODES POSITION CONTROL DEVICE FOR AN ELECTRIC ARC FURNACE

Applicant : KUNHIKANNAN CHALIL, B/8,
& SUPRABHAT A PARTMENTS, BHIDE-
WADI KANSAL SECTION, P. O.
Inventor AMBERNATH (EAST), PIN-421501,
THANE DISTRICT, MAHARASHTRA
STATE, INDIA, AN INDIAN.

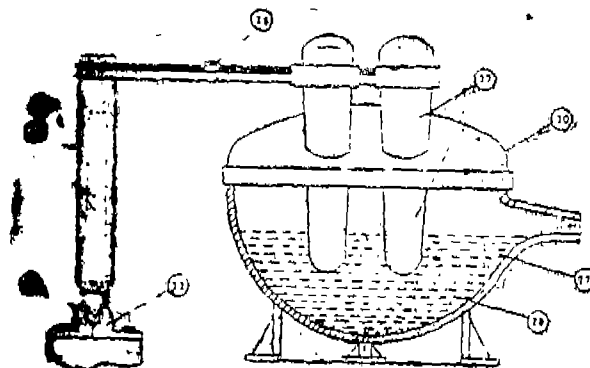
Application No. : 79/BOM/94, Filed March 7,
1994.

Appropriate Office for Opposition Proceedings
(Rule 4, Patents Rules, 1972) Patent Office Branch,
Mumbai-400013.

4 Claims

Electrodes position control device for an Electric Arc furnace comprising a cylinder with copper coil wound just beneath the periphery of the cylinder and a piston with copper coil wound just beneath the periphery of the piston, said cylinder and piston provided in a case adjacent the said Electric arc furnace, Electrode arms holding the said electrodes inside the said furnace, connected to the said cylinder and piston through bus bar cables, for getting actuated to raise or lower the said electrodes accordingly in the furnace, the coils of the said cylinder and piston being connected to an Electrical excitation circuit through bus bars such that every fraction of current changes in the said coils will effect necessary production of magnetic flux around the said coils to activate the piston inside the cylinder magnetically due to which the position of electrodes is automatically

controlled and changed to keep a constant arc in between the said electrodes inside the electric arc furnace.



Complete specification : 6 pages Drawing : 5 sheets.

Ind. Cl. : 40 B G [(IV) (I)]

180154

Int. Cl. : B 01 J-37/00

A PROCESS FOR THE SYNTHESIS OF HIGH SILICA METALLOSILICATE CATALYST.

Applicants : Indian Petrochemicals Corporation Limited a Government Company Incorporated under the Companies Act, 1956 of PO Petrochemicals, District-Vadodara-391346, Gujarat, India.

Inventors : 1. YAJNAVALKYA SUBRAY
BHAT &

2. ANAND BHIMARAO HALGERI.

Patent Application No. 88/BOM/94 Filed on
10-03-94.

Appropriate Office for Opposition Proceedings
(Rule 4, Patents Rules, 1972) Patent Office Branch,
Mumbai-400013.

7 Claims

1. A process for the synthesis of a high silica metallosilicate Catalyst which comprises, forming an aqueous mixture of a silicon compound gallium compound, iron compound on aluminium compound, a hydroxide of alkali metal and a tetra alkyl ammonium cation, subjecting the mixture so formed to a temperature in the range from 100 to 190°C, recovering the solid product in any known manner, washing the recovered product and drying the washed product to provide a dried composite of silica crystalline metallosilicates, containing aluminium, gallium and iron in the framework and oxides of gallium, iron and aluminium, calcining the solid dried composite of a temperature

of from 400 to 600°C in an atmosphere of air. Subjecting the calcined composite to ion exchange to control the sodium content thereof by replacing excess sodium ions with ammonium ions.

further calcining the composite to provide the acidic form of the desired high silica metasilicate catalyst.

Complete Specification ; 17 Pages Drawings : Nil.

Ind. Cl. : 11 D

180155

Int. Cl. : A 01 M 1/02.

A MOTH OR FLY TRAP USING PHEROMONE-FEMALE SEX HORMONE AS BAIT FOR LURING MALE SPECIES.

Applicant Dilip Shantaram Dahanukar, Industrial Assurance Building, Churchgate,
Inventor : Bombay-400020, Maharashtra, India.

Application No. : 102/BOM/94, Filed on March, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

5 Claims

Moth or fly trap using pheromone-female sex hormone—as bait for luring male species comprises of a micro porous lure case forming receptacle for Pheromone (female sex hormone), a bucket having locking means and fitted with a bowl shaped trap door having a wide opening at its top and a narrow opening linked to each other by a tapering wall, a plurality of spacer septa fitted on said trap door, a dish shaped cover having a catch means in its bottom center for fixing thereto said lure case and a pair of ear lobes in its top surface for passing therethrough a rope or the like for suspending said moth catcher from a hook or tree top, wherein said cover when fitted on said septa provides radial passage therebetween for entry of lured male moth species to slide down along tapering wall of said bowl dropping down in to said bucket die of starvation.

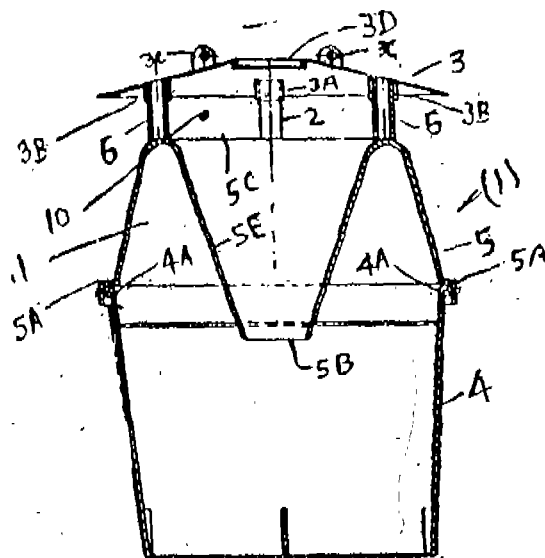


FIG-2

Complete Specification : 12 pages Drawings : 7 sheets

Ind. Cl. : 170 B [(XLIII)(4)]

180156

Int. Cl. : C 11 D 3/295.

METHOD OF PRODUCING A BLEACHING DETERGENT COMPOSITION.

Applicant : Hindustan Lever Limited, 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India.

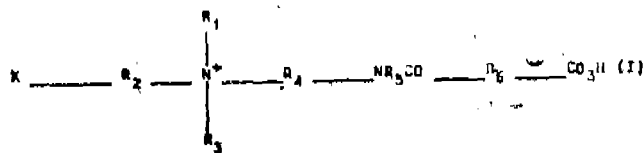
Inventors : 1. JOHN OAKES.
2. DAVID WILLIAM THOTNTHWAITE.

Application No. : 107/BOM/1994, Filed on March 21, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

3 Claims

Method of producing a bleaching detergent composition comprising from 3 to 40% by weight of one or more surface-active compounds, from 5 to 80% by weight of one or more detergency builders and an effective amount (as defined herein) of a cationic peroxy acid, as the bleach component, said peroxy acid having formula (I).



Wherein :

R_1 is an optionally substituted C_1-MC_{24} alkyl of alkenyl of alkylaryl with a C_1-C_{24} alkyl group

R_2 and R_3 are each independently aryl or $(CH_2)_n$ where n is an integer from 1 to 7;

R_5 is selected from hydrogen, C_1-C_7 alkyl, or aryl substituted with a C_1-C_2 alkyl, and

X^- is an encounter anion, wherein the method includes the step of adding the one or more detergency builders to the composition obtained by mixing the rest of the components, for obtaining a pH at least 7.5 when the resulting composition is dissolved to give a surfactant concentration of 1 g/l in distilled water at 25°C.

Complete Specification : 20 Pages : Drawings : Nil

Int. Cl. : C 11 D, 7/16.

180157

Int. Cl. : 170 A

A PROCESS FOR PREPARING A DETERGENT POWDER HAVING LOW BULK DENSITY.

Applicants : Hindustan Lever Ltd. 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India.

Inventors : 1. VINODKUMAR RAMNIRANJAN DHANUKA.

2. SHASHANK VAMAN DHALEWADIKAR.

3. NIRAJ DHANSUKHLAL MISTRY.

4. FAKHRUDDIN FMAIL PACHA

Application No. : 116/BOM/1994. Filed on March 25, 1994.

Complete after provisional left on May 12, 1995

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

10 Claims

A process for preparing a detergent powder having low bulk density by the process of dry neutralization characterized in that the neutralization of acid precursor of an anionic surfactant such as herein described with an alkaline inorganic material such as herein described is carried out in a fluidised bed.

(Complete Specification : 12 Pages Drawings : Nil)

Provisional Specification : 8 pages ; Drawings : Nil

Int. Cl. : 55 F

180158

Int. Cl. : C 07 C—201/12

A NOVEL ONE STEP SYNTHETIC METHOD FOR THE MANUFACTURE OF 2, 6-DICHLOROPHENOL.

Applicants : M/S. J. B. CHEMICALS & PHARMACEUTICALS LTD., NEELAM CENTRE, 'B' WING, 4TH FLOOR, HIND CYCLE ROAD, WORLI, MUMBAI 400025, MAHARASHTRA, INDIA.

Inventors : 1. SHIRISH BHAGWANALAL MODY, 2. BHARAT PRAVINCHANDRA METHA, 3. ATUL ANANT SHRIKHANDE.

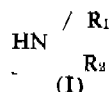
Application No. : 117/Bom/94 filed on March 25, 1994.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Mumbai 400013.

12 Claims

A novel one step synthetic method for the manufacture of 2, 6-dichlorophenol is given below :

by reacting phenol with chlorine gas in a mixture of non polar chlorinated hydrocarbon as an inert solvent, containing branched chain amine of formula 1, given below :



wherein R_1 may be secondary alkyl radical with 3 to 10 carbon atoms or a tertiary alkyl radical with 4 to 10 carbon atoms and R_2 may be a hydrogen or a secondary alkyl radical with 3 to 10 carbon atoms. When R_1 signifies a secondary alkyl radical, R_2 is also a secondary alkyl radical and when R_1 signifies a tertiary alkyl radical, R_2 signifies hydrogen and which is isolated in a known manner.

(Comp. Specn. : 11 Pages;

Drugs : Nil)

Ind Cl : 85 L (XXXI)

180159

Int Cl : F23H, 17/12

REFUSE INCINERATION SYSTEM.

Applicant TSUNG—HSIEN KUO, NO. 5, 57 & ALLEY, 158 LANE, MI-TO ROAD, Inventor : CHIAVI ROAD, TAIWAN (R.O.C.).

Application No. : 120/BOM/1994 Filed on March 28, 1994.

Appropriate Office for Opposition Proceeding (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-13.

2 Claims

A refuse burning equipment with a heat energy utilising system comprising :

a burning room having a refuse distributor at top to receive refuse conveyer, a plurality of screw pushers positioned below said distributor to push refuse down, a furnace grate on the bottom, a refuse roller positioned on said furnace grate for pulling the refuse piled above, an aire distributor tube positioned under said

furnace grate for supplying air for burning, a screw conveyer on the bottom for conveying ash out, and a spray nozzle in a side wall connected with an oil pump connected also with a fuel tank to spray fuel on said refuse on said grate for the ignition;

a boiler connected with said burning room by means of a burning gas passageway, having (1) an air pre-heater, (2) a high pressure steam heater and (3) a high pressure saturated steam generator connected with said high pressure superheated steam heater, said air preheater connected with a blower at its outer end and with an air pipe connected with said air distributor of said burning room, forming an air transporting route, said high pressure superheated steam heater, connected with a turbine connected with an electric generator and with a waste steam condenser, and then with a condensed water storage, said condensed water storage connected with a boiler tube and a high pressure pump by means of transporting tubes and then with said high pressure saturated steam generator forming a boiler water supply, steam and heat energy utilising route;

a flue gas chamber provided at the back of said second burning room and connected with another stack gas passageway connected with a stack gas washing tower connected with a chimney;

a characterised in that the fence is provided inside said burning room below said screw pushers and above refuse roller and between two side walls of said burning room having a steel tube or a heat resistant material bar 9 such as titanium, and so on bent in horizontal or vertical direction arranged in the fence of several parallel tubes or bars, an upper end of said tube being connected with said boiler tube and a lower end of said tube being connected with said condensed water tube so that condensed water may flow up through said tube of said tubular fences for cooling it, if the fence is made by the heat resistant material bar, then the condensed water tube connected with said boiler feedwater tube directly.

Complete Specification : 19 Pages Drawing : 1 Sheet

Ind. Cl. : 5 I (1); 5C

180160

Int. Cl. : A 01 D 34/72, 34/74.

A SELFDRIVEN, CROP ORIENTING THREE WHEELER HARVESTER.

Applicants : Walchandnagar Industries Limited,
415 Churchgate Chambers, 5, New Marine Lines,
Mumbai-400020, Maharashtra, India.

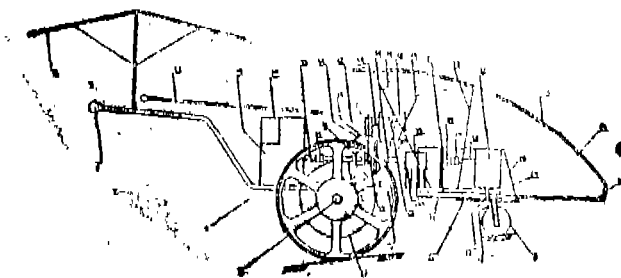
Inventor : RAMAKANT TIWARI.

Application No : 131/BOM/94 Filed on Mar 31 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-13.

5 Claims

A self driven crop orienting three wheeler harvester consisting of a base frame provided with a handle at the rear end thereof a pair of driver wheels rigidly mounted at opposite ends of an axle which is rotatably mounted across the base frame, a front wheel rotatably mounted at the front end of the base frame in alignment with one driver wheel on one side of the harvester a diesel engine mounted on the base frame, the diesel engine shaft being connected to a rotary cutter through a centrifugal clutch, coaxial speed reduction gear box and first right angled speed reduction gear box, the rotary cutter comprising a plurality of blades and being disposed at the front end of the base frame in spaced apart relationship therewith and rotatable in the horizontal plane, drive transmission means interconnecting the centrifugal clutch and the axle a protective guide plate rigidly fixed to the base frame and comprising a curved portion and a tangential portion, the curved portion being disposed over the front end of the base frame spaced above the rotary cutter with the rotary cutter blades projecting out of the curved portion, the tangential portion extending over the other side of the harvester a cane lifting cum guiding angular member rigidly fixed to the base frame and comprising an angular portion disposed at the front end of the base frame in alignment with the front wheel and at the same level as the rotary cutter, one limb of the angular member being bent upwardly progressively and running across the rotary cutter and over lying the tangential portion of the guide plate and the other driver wheel and a canopy mounted on the handle.



Complete Specification : 19 pages Drawings : 5 Sheets

CLAIM UNDER SECTION 20(1) OF THE
PATENT ACT 1970

In pursuance of leave granted under Section 20(1) of the Patents Act 1970 application No. 142/DEL/90 (179224) of PRESSINDUSTRIA S. p.A. Italy & STATE COMPANY "VERILA" has been allowed to proceed in the name of LINDE AG AND STATE COMPANY "VERILA".

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 168099 granted to John Richard Gumbley for an invention relating to a passive lightning attracting device.

The patent ceased on the 18th Dec., 1996 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 27th December, 1996.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace 2nd M.S.O. Building 5th, 6th & 7th Floor 234/4, Acharya Jagadish Bose Road, Calcutta 700020 on or before the 10-03-98 under Rule 69 of the Patents Rules, 1972. A Written Statement, in triplicate setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RENEWAL FEES PAID

178201	166621	178277	165203	174148
178197	176321	178301	169074	174680
166702	177608	178303	169981	
173216	178195	167782	171035	
178267	178222	168212	176192	
178269	178223	175770	173458	
166464	178228	177526	173824	
175945	178261	173204	173480	
175825	178243	165464	175217	
165590	178270	166620	175218	
173418	178275	162619	169475	
175331	178266	177382	173786	

CESSATION OF PATENTS

172062
173708
173716
173428
176700
177048

PATENT SEALED ON 12-12-97.

177409 177799*D 177830 178276* 178289*D
178318 178333 178391 178392 178394
178395* 178396 178397 178398 178399
178402 178403* 178404 178405
178406 178407*D 178403*F 178400*D, 178410*D
CAL—04, DEL—08, MUM—11 CHEN—01.

*Patent shall be deemed to be endorsed with words LICENCE OF RIGHT Under Section 87 of the Patents Act., 1970 from the date of expiration of three years from the date of sealing.

D—Drug Patents

F—Food Patents

THE DESIGN ACT, 1911 Section-63

DESIGN ASSIGNMENT

The following designs stand in the name of Sree Chitra Trirunal Institute for Medical Sciences and Technology has been assigned in the Register of Designs in the name of National Research Development Corporation.

D/No.	Class	Name
153737	3	National Research Development Corporation, "Anusandham Vikas 20-22, Zamroodpur Community Centre, Kailash Colony Extn. New Delhi-110048

The following Design stand in the name of Luxor Pen Co. has been assigned in the Register of Design in the name of Luxor Writing Instrument Pvt. Ltd.

D/No.	Class	Name
163363,	3	Luxor Writing Instrument Pvt. Ltd. an Indian Co. incorporated under the Companies Act, 1956 having its Registered office at No. 5, Okhla Industrial Estate, Phase-III, New Delhi-110020.
164670,		
164138,		
164141		
164142.		

REGISTRATION OF DESIGNS

The following designs have been registered: The are not open to inspection for period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration included in the entries.

Class 1 No. 171524, Kirloskar Copeland Limited, a company incorporated under the provisions of Indian Companies Act, of Dadha-Ruikar House, 2007 Tilak Road, Poona-411030, State of Maharashtra, India, "SPRING BRACKET", 14th June 1996

- Class 1 No. 172710, M/s. Joginder Singh, TEJ-VINDER SINGH, Gill Road, Miller Ganj, Ludhiana-3, Punjab, India, an Indian partnership firm whose partners are :— 1 Joginder Singh, 2 Tejvinder Singh, 3 Davinder Singh, being Indian nationals of the above address, "CYCLE SADDLE" 27th November, 1996.
- Class 1 No. 172320, Sigma Search Lights Ltd., an Indian company of 7, Hari Sava Street, Calcutta-700023, West Bengal, India, "SEARCH LIGHT", 7th October, 1996.
- Class 1 No. 171227, Sumeet Research and Holdings Limited, No. 55, Ambattur Industrial Estate, Ambattur, Madras-600058, Tamil Nadu, India, "MULTIGRIND", 30th April, 1996.
- Class 1 No. 173004, D. Swarovski & Co., of A6112 Wattens, Austria, an Austrian company, "GEM STONE", 22nd January, 1997.
- Class 1 No. 172451, Youji Kitamura, a citizen of Japan, of C/o Kanpatsu Kogyo Kabushiki Kaisha, 1-18, Deguchi 1-chome, Hirakata-shi, Osaka-fu, Japan, "TENSOR BAR FOR SPINNING MACHINE", 25th October, 1996.
- Class 1 No. 172953, Susanji Udyog Pvt. Ltd., having its regd. office at 101, Bakul Apartments, Dharam Karan Road, Ammerpet Hyderabad-500016, A.P. India, "LIFTING PLATE FOR HALLOW BLOCK MOULDS", 9th January, 1997.
- Class 1 No. 172954, Susanji Udyog Pvt. Ltd., having its regd. office at 101, Bakul Apartments, Dharam Karan Road, Ammerpet Hyderabad-500016, A. P. India, "BLOCK MAKING MACHINE", 9th January, 1997.
- Class 1 No. 172955, Susanji Udyog Pvt. Ltd., having its regd. office at 101, Bakul Apartments, Dharam Karan Road, Ammerpet, Hyderabad-500016, A.P., India, "LIFTING PLATE FOR SOLID BLOCK MOULDS", 9th January, 1997.
- Class 1 No. 172911, Jean Martin Watches and Accessories Pvt. Ltd., an Indian Company, at 11-5-148/3, Red Hills, Hyderabad-500004, Andhra Pradesh, India, "WRIST WATCH", 2nd January, 1997.
- Class 1 No. 173067, Johnson Controls Hong Kong Limited, a company organised and existing under the laws of Hong Kong and whose address is Unit 1501, 15/F Devon House Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong, "THERMOSTATE", 30th January, 1997.
- Class 1 No. 173349, Wrigley India Private Limited, an Indian Company, at Doddaballapur Road, A. V. PURA, Rajanakunte Post, Bangalore-560064 Karnataka State, India, "DISPENSER", 14th March, 1997.
- Class 1 No. 173566, Fiat Auto S.p.A. of Corao Giovanni Agnelli-200, I-10135 Torino Italy, an Italian Joint Stock Company, "FOUR DOOR SALOON MOTORCZR", 7th April, 1997.
- Class 1 No. 173567, Fiat Auto S.p.A. of Corao Giovanni Agnelli-200, I-10135 Torino Italy, an Italian Joint Stock Company, "FIVE DOOR HATCHBACK MOTOR CAR", 7th April, 1997.
- Class 3 No. 173573, Fiat Auto S.p.A. of Corao Giovanni Agnelli-200, I-10135 Torino Italy, an Italian Joint Stock Company, "A REAR LIGHT INDICATOR ASSEMBLY FOR MOTOR CAR", 7th April, 1997.
- Class 3 Nos. 173568 & 173569, Fiat Auto S.p.A. of Corao Giovanni Agnelli 200, I-10135 Torino, Italy, an Italian Joint Stock Company, "REAR BUMPER FOR MOTOR CAR" 7th April, 1997.
- Class 3 No. 171490, Yamaha Hatsudoki Kabushiki Kaisha, 2500 Shingai, Iwata-shy Shizuoka-ken, Japan, a Japanese Company, "FRONT COVER FOR MOTORCYCLE" 11th June, 1996.
- Class 3 No. 171681, Hawkins Cookers Limited, Maker Tower F-101 Cuffe Parade, P. O. Box No. 16083, Mumbai-400005, Maharashtra, India, an Indian Company "HANDLE FOR PRESSURE COOKER AND KITCHEN UTENSILS", 27th June, 1996.

- Class 3 No. 171130, Malhotra Shaving Products Limited, an Indian Company of Malhotra House, 6-3-1186, Begumpet, Hyderabad-500016, Andhra Pradesh, India, "COMPOSITE RAZOR HANDLE", 19th April, 1996.
- Class 3 No. 171896, Marico Industries Ltd., at Rang Sharda, Kishenchand Marg, Bandra reclamation, Bandra (West) Mumbai-400050, State of Maharashtra, India, "BOTTLE", 30th July, 1996.
- Class 3 No. 171718, McGill Technology Limited, a British Company at 107-109 High Street, Rochester, Kent ME1 1JS, England, "FOOD CONTAINER", 8th July, 1996.
- Class 3 No. 171746, Pratap Plastics, B-106, Virwan Industrial Estate, Off : Western Express Highway, Goregaon (E), Mumbai-400063, India, an Indian partnership firm, "PENCIL BOX", 10th July, 1996.
- Class 3 No. 171035, Parag Enterprises of E 53 Industrial Area, Sikandra, Site C, Agra, U.P., India, an Indian sole proprietary concern, "CONTAINER" 4th April, 1996.
- Class 3 No. 171093, Gropac India of 4, Kalyan Path, near Police Memorial, Jaipur-320204, Rajasthan, India, an Indian sole proprietorship concern, whose proprietor is Om Prakash Sharma of above address and is Indian by nationality, "SKIN TRACTION KIT", 11th April, 1996.

T. R. SUBRAMANIAN

Controller General of Patents, Designs & Trade Marks

प्रबन्धक, भारत सरकार मन्त्रालय, फरीदाबाद द्वारा मुद्रित

एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1998

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AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1998

